A REPORT ON IDAHO'S TIMBER SUPPLY

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EXECUTIVE SUMMARY:

In establishing new harvest levels for the National Forests, it is important that the USDA Forest Service assess how National Forest timber supply opportunities relate to timber supply potentials from other forest ownerships. The primary purpose of this report is to identify the potential of the National Forests and other ownerships to supply timber in the State of Idaho in the context of sustaining or increasing regional timber supplies into the future, with the focus on the next 10 to 15 years.

The report represents one source of information that is to be used in selecting the preferred alternative in National Forest plans in the State of Idaho. It is an analytical inquiry and should not be construed as a decision document.

Fifty eight timber supply scenarios were developed and analyzed for both northern and southern Idaho. The scenarios assume various supply options for National Forest System lands, private industrial lands, private nonindustrial lands, other public lands, and State lands. National Forest planning information was used for supply projections on National Forest lands. These projections are based on the harvest levels associated with various Forest plan alternatives and extend beyond the 10 to 15 year duration of these plans. Consequently, they may be subject to change when the Forest plan is revised or amended. The Timber Resource Analysis System model (TRAS) was used to create supply projections on the remaining ownership classes. These projections are compared to the historic annual median harvest levels for northern and southern Idaho. They are intended to serve as baselines or points of reference, not as an indication of future timber demand. Independent studies indicate that timber demand is expected to increase over the long-term in the Rocky Mountain area.

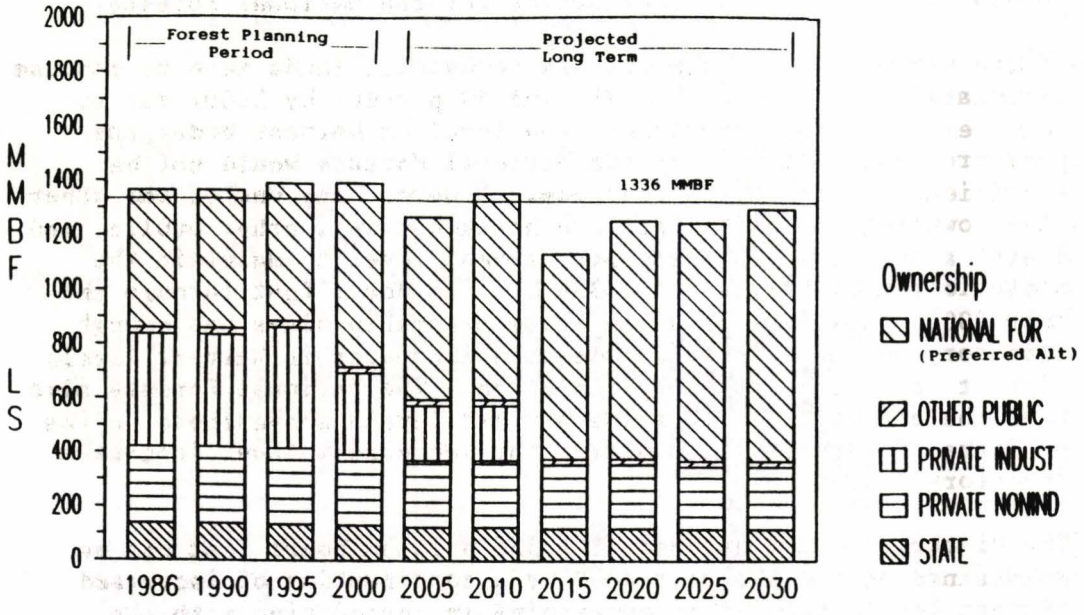
Findings for Northern Idaho

Timber supply is adequate to maintain and even increase timber harvest levels above the historic annual median harvest level of 1.336 billion board feet (1975-1984) for the next 10 years. This is based on the planned harvest levels under the preferred alternatives for the National Forests in conjunction with the continuation of the historic harvest levels from the other ownerships. Depending upon corporate objectives and policies, the harvest levels for the private industrial lands may begin to decline during this period due to the shortage of timber inventory volume on these lands. In subsequent years, however, a significant decline in harvest levels from these lands is inevitable, though the timing, duration, and magnitude of the actual decline are unknown. Several scenarios in the report do, however, portray different potential declines from private industrial lands.

The other ownerships, in conjunction with the harvest levels under the preferred alternatives for the National Forests, have sufficient timber

inventory volumes to collectively offset this estimated future decline from private industrial lands to maintain the 1.336 billion board feet historic annual harvest through the year 2030. While the preferred alternative for the National Forests cannot offset the decline without increases in harvest levels from the remaining ownerships, the decline could be offset by the National Forests alone if alternatives with higher harvest levels were selected.

The graph below illustrates the continuation of historic harvest levels from private nonindustrial lands, other public lands, and State lands, and National Forest harvest levels under preferred alternatives for Northern Idaho. Historic harvest levels from private industrial lands cannot be maintained beyond the next 10 to 15 years (the timing, magnitude, and duration of the actual reduction is unknown).



To place the following specific findings in their proper perspective, it may be useful to first compare the planned timber harvest levels under the preferred alternatives for the northern Idaho National Forests (Clearwater, Nez Perce, and Panhandle) with the historic annual harvest for 1975 to 1984. The preferred alternatives indicate that the planned annual harvest gradually increases from 502 million board feet in the first decade to 909 million board feet in the fifth decade. The planned annual harvest of 502 million board feet in the first decade represents a 12 percent increase over the average annual harvest of 448 million board feet that occurred from 1975 to 1984.

The specific findings are:

--The average annual harvest (1975-1984) of 415 million feet from private industrial lands cannot be maintained beyond the next 10 years due to a shortage of sawtimber inventory volume on these lands.

--If the average annual harvest (1975-1984) of 446 million board

feet from private nonindustrial, other public, and State lands were maintained through the year 2000, and if the historic annual harvest for private industrial lands were maintained through 1995 followed by a maximum decline of 50 percent from 1996 to 2000, the total historic annual harvest of 1.336 billion board feet could be maintained or increased through the year 2000. This is due to increasing harvest levels under the preferred alternatives for the National Forests.

However, if sawtimber inventory volume from the private industrial lands were depleted by the year 2010, the total harvest level would drop below the 1.336 billion board feet figure beginning in the year 2000. This reduction could be offset by increased harvests from other ownerships in conjunction with the harvest levels under the preferred alternatives or by higher harvest levels under different alternatives for the National Forests.

--If the harvest level from private industrial lands were to decline immediately (25 percent by 1990 and 50 percent by 2000) due to long term inventory shortages, the level of harvest under the preferred alternatives for the National Forests would not be sufficient to offset the decrease. However, any one of the other three ownership classes (private nonindustrial, other public, and State) alone could increase its harvest level to maintain the historic annual harvest of 1.336 billion board feet through the year 2000. However, only the State ownership class has enough inventory volume to provide adequate increases in harvest levels without long-term inventory depletion. The National Forests also have the potential to increase harvest levels above those in the preferred alternatives to offset the decrease without long-term inventory depletion.

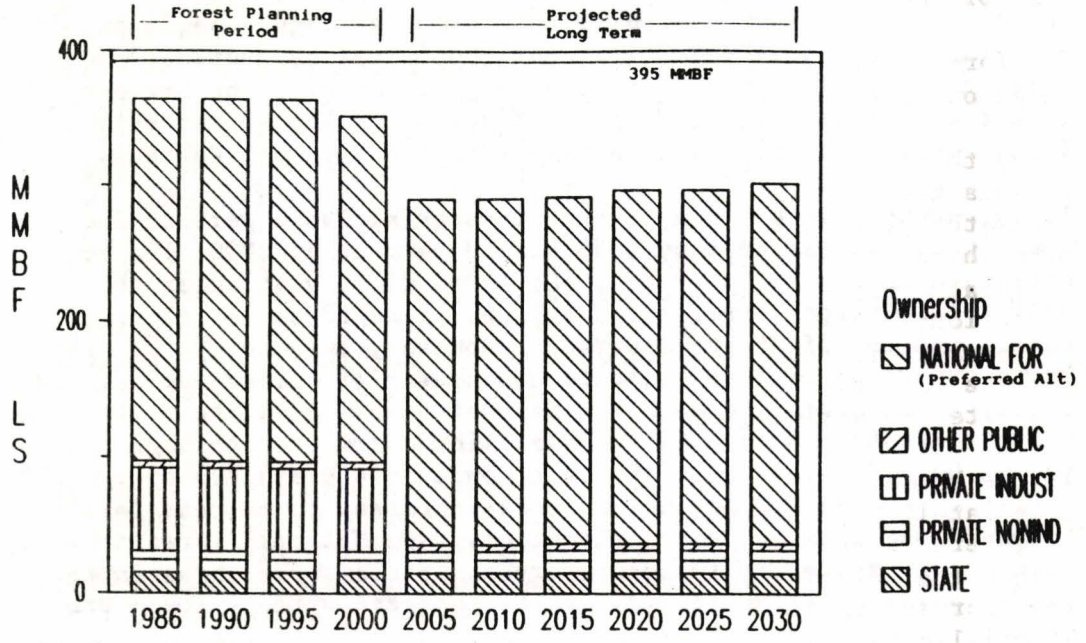
The historic annual harvest of 1.336 billion board feet can be maintained beyond the year 2000 by a continuation of increased harvest levels from other ownerships in conjunction with the harvest levels under the preferred alternatives or by higher harvest levels under different alternatives for the National Forests.

Findings for Southern Idaho

The private nonindustrial, other public, and State lands have adequate timber inventories to increase their harvest levels to collectively offset declines under the preferred alternatives for the National Forests to maintain the historic annual median harvest level of 395 million board feet (1975-1984) through the year 2000. However, the National Forests alone could offset the decline during this period by selecting alternatives with harvest levels above those indicated in the preferred alternatives. The timing, duration, and magnitude of future decreases in harvest levels from private industrial lands due to the shortage of timber inventory volume is dependent on corporate objectives and policies. However, alternatives with higher harvest levels than those under the preferred alternatives for the National

Forests can alone, or in conjunction with increases in the other land ownerships, could more than offset the projected decline in harvest levels from the private industrial lands beyond the year 2000.

The graph below illustrates the continuation of historic harvest levels from private nonindustrial lands, other public lands, and State lands, and National Forest harvest levels under preferred alternatives for Southern Idaho. Historic harvest levels from private industrial lands cannot be maintained beyond the next 10 to 15 years (the timing, magnitude, and duration of the actual reduction is unknown).



To place the following specific findings in their proper perspective, it may be useful to first compare the planned timber harvest levels under the preferred alternatives for the southern Idaho National Forests (Boise, Caribou, Challis, Payette, Salmon, Sawtooth, and Targhee) with historic levels for 1975 to 1984. The preferred alternatives indicate that the planned annual harvest of 267 million board feet in the first decade drops to 255 million board feet in the second decade (due to a decline in harvest volume, a departure, on the Targhee National Forest) before gradually increasing to 265 million board feet in the fifth decade. The planned annual harvest of 267 million board feet in the first decade represents a 5 percent decrease from the average annual harvest of 281 million board feet that occurred from 1975 to 1984.

The specific findings are:

--The average annual harvest (1975-1984) of 61 million board feet from private industrial lands cannot be maintained beyond the next 15 years due to a shortage of sawtimber inventory volume on these lands.

--If the average annual harvest (1975-1984) of 97 million board feet

from private industrial, private nonindustrial, other public, and State lands were maintained through the year 2000, total timber harvest would decline from the historic annual harvest of 395 million board feet to 364 million board feet from 1986 to 1995 and to 352 million board feet from 1996 to 2000. This is due to decreased harvest levels under the preferred alternatives for the National Forests. As modeled in the report, approximately 682 jobs in the wood products and related sectors would be lost along with an annual loss of $27 million of income in these sectors during the next 10 years. In addition, there would be an annual loss of $244,931 in payments to counties in this period.

The foregoing reductions could be offset by any one of the other three ownership classes (private nonindustrial, other public, and State) to maintain the historic annual harvest of 395 million board through the year 2000. However, the sawtimber inventory volumes from these ownership classes would be depleted shortly after the year 2010. Collectively, the harvest levels from these ownerships could be increased to offset the reductions from the National Forests without resulting in long-term inventory depletions. In addition, there is a potential to increase the harvest levels above those indicated by the preferred alternatives for the National Forests, and this could more than offset the indicated reductions.

--If the harvest level from private industrial lands were to decline immediately (25 percent by 1990 and 50 percent by 2000) due to long-term inventory shortages, increased harvest levels from either the private nonindustrial or State lands alone could offset the decrease in order to maintain the historic annual harvest of 395 million board feet. However, the sawtimber inventory volumes would be depleted on either of these ownerships from 2010 to 2020. The indicated decreases from the National Forest and private industrial lands could be offset by increased harvests from the private nonindustrial, other public, and State lands collectively without resulting in sawtimber inventory volume shortages beyond 2000. The National Forests also have the potential to increase harvests above those in the preferred alternatives to alone offset the decrease without long-term inventory depletion.

Capability of Individual Ownership Classes to Increase Harvests

Although most ownership classes have the ability to increase harvest levels from a biological standpoint, as indicated by the findings, other factors such as budgets, work force levels, and the goals and objectives of the particular ownership class (or segment of a class) must be taken into account when interpreting the findings of this report.

The State ownership class has the biological potential for large increases in harvest levels in both northern and southern Idaho. The State currently harvests approximately 185 million board feet annually off its lands. One objective of the Idaho State Department of Lands is

to increase annual harvests to approximately 200 million board feet, a figure close to what the Department estimates is the State's sustained yield. This increase in harvest levels would require additional work force and funding. Additional funding would likely be invested more in northern Idaho than in southern Idaho, because financially attractive investments are more frequently found in the northern region. Without an increase in funding, any large increase in annual harvests would not be possible.

The USDI Bureau of Land Management (BLM), which represents 65 percent of the historic harvest level of the other public ownership class, displays the potential for large biological increases in harvest levels in northern Idaho and slight increases in southern Idaho. Increased timber harvest levels on lands administered by the BLM may not be consistent with its overall management goals and objectives. Although not analyzed in this report, potential conflicts may exist between increases in timber harvests and other resource objectives. As with the State lands, there is also the problem of obtaining increased funding and work force levels. Preliminary BLM studies indicate that a 27 to 30 percent increase in harvest levels could be achieved in northern Idaho with investments in intensive management, but this would require additional funding and a two-fold increase in staffing. In southern Idaho, a more extensive type of management could be undertaken (such as increases in old growth harvesting in the Salmon area), which would probably not require large increases in funding.

The amount of private nonindustrial lands that may be considered operable for timber production was also taken into account in the report. However, the availability of timber from private nonindustrial lands is difficult to determine because of changing attitudes, rapid landownership turnover, and indefinite landowner long-term plans. It may be reasonable to expect that the harvest levels from these lands will remain relatively constant in the forseeable future unless some dramatic changes take place (e.g. - changes in stumpage prices, investment incentives, and/or ownership objectives).

In light of the capability of the private nonindustrial, other public, and State lands, the National Forest lands could be viewed as the most opportune source of additional timber to offset projected declines in harvest levels from private industrial lands, particularly in southern Idaho. The National Forest System lands have the biological potential for the largest increase in harvest levels of all the ownership classes within the State of Idaho. However, increased timber harvest levels on lands administered by the Forest Service need to be considered in light of overall management goals and objectives. Futhermore, substantial increases in funding and work force levels would be required to increase timber harvest levels significantly. Although not analyzed in this report, potential conflicts may exist between increases in timber harvests and other resource objectives. In addition, Forest planning analyses have indicated that higher timber harvest levels on some National Forests may decrease the economic efficiency of the timber program.

INTRODUCTION:

The interaction between National Forest timber harvest and harvest on other ownerships can have a significant influence on the future economic welfare of the regional economies being affected by these harvests. In some areas of the West, such as the State of Idaho, where National Forest timber prices were bid up in the late 70's and early 80's, timber industry relied heavily upon harvests from private lands where timber prices were lower. Thus, timber that has been historically available on private lands may now have to be substantially reduced.

It is important that the Forest Service carefully assess how the proposed sale level of one National Forest cumulatively relates to those of other Forests within the economic region, and how the total National Forest sales level relates to supply projections and possibilities from other forest ownerships. The purpose of this report is to define and understand the role and potential of National Forest timber supplies in the State of Idaho for sustaining regional economies during the next 10 to 15 years.

Given the above, this report was developed to specifically address the following problem statements:

-Given a 10-year median harvest figure of 1.731 billion BF/year in the State of Idaho, what are the possible job/income impacts of the aggregate sale levels proposed in the preferred Forest plan alternatives?

-What are the supply possibilities from National Forest System lands to offset proposed deviations for the 1.731 billion BF/year?

-What are the supply possibilities from private industrial lands, other public lands, private non-industrial lands, and State lands to offset deviations from the 1.731 billion BF/year?

-What are the long-term inventory implications for the various ownerships?

This report is but one piece of information that could be used in selecting the preferred alternative in National Forest Plans in the State of Idaho. It is analytical inquiry, and should not be construed as a decision document.

OBJECTIVES:

The objectives of this report are:

1) To identify the effects of the harvest levels proposed in the draft Idaho National Forest plans on employment and payments to counties for Northern, Southwest, and Southeast Idaho.

2) To relate the proposed National Forest harvest levels to prospective harvest levels from other ownerships in the State of Idaho.

3) To identify the potential responsiveness of the National Forests to supply timber for the State of Idaho.

ASSUMPTIONS:

1) The analysis will not consider prices. All volume projections and assumptions are independent of price changes. Simultaneous consideration of prices and volumes would require a supply and demand schedule. Such a schedule is not now available for either the State of Idaho or sub-regions and would require an extensive and protracted effort to develop.

2) A harvest level of 1.731 MMBF/year for the State of Idaho is used for comparison purposes. This figure is the median of the total harvest volumes from the State of Idaho from 1975 to 1984 (Appendix A). It should not be associated and/or confused with total demand for the State of Idaho.

3) Growth and mortality rates were based on the data collected in the 1981 inventory done by the Intermountain Station.

4) Forest Service harvests will be summed for a range of harvest alternatives already considered in the Forest planning process as of October, 1986. These are:

   A. Preferred alternative (or tentatively preferred alternative)
   B. Current direction alternative
   C. High market alternative (or alternative with highest ASQ)
   D. Low market alternative (or alternative with lowest ASQ)
   E. Departure on the preferred alternative (if considered in detail). If the departure was not considered in detail in the individual Forest's EIS, then the preferred alternative was used.

5) There will be no significant change in processing and harvesting technology and efficiency over the projection period. Accurate estimates of such changes are not possible.

6) All volume data will be analyzed in board feet log scale (Scribner). Inventory data will be displayed in both cubic feet and board feet.

7) The time frames for the analysis will be projected through the year 2030. Displays will be developed through the year 2000. Projections beyond the year 2000 will be discussed in narrative form.

8) Sensitivity analysis will be considered as pertinent questions warrant.

9) Since net exports have historically been very small, it is assumed that all timber harvested in a given marketing area is also processed in the same marketing area.

10) Only the Timber production effects of the Forest planning problem will be considered. Other effects that are complimentary or competitive with those analyzed in this report will occur, but are not formally analyzed.

11) Employment and income impacts will be displayed for both the timber related sectors and separately for the total impact including indirect and induced effects. Employment and income impacts are assumed to be directly proportional to the volume harvested.

12) The North Idaho survey unit will consist of the ten counties north of and including Idaho County. The South Idaho survey unit will consist of the remaining counties in the State.

13) Inventories were broken down by ownership for lands available for timber production (commercial) and lands not available for timber production (non-commercial). Projections in the TRAS model (A timber volume projection model) were made only on those lands operable for timber production.

14) The backlog of timber (approximately three years worth) will stay the same in the future for NFS lands.

APPROACH AND METHODOLOGY:

The approach and methodology are as follows:

Land Ownership Classes:

For the purposes of this report five different land ownership classes were evaluated and analyzed. They are:

National Forest System Lands -- Federal Lands legally designated as National Forest or purchase units and other lands under the administration of the Forest Service, including experimental areas and Bankhead-Jones Title III lands.

State Lands -- Lands owned by States or lands leased to these governmental units for 50 years or more.

Private Industrial Lands -- Lands owned by companies or by individuals operating wood-processing plants.

Non-Industrial Private Lands -- Lands owned by farm and/or ranch operators, private individuals, indian tribes, and private corporations that do not operate wood-processing plants.

Other Public Lands -- Lands owned by counties and local public agencies or municipalities (or leased to these governmental units for 50 years or more), and miscellaneous federal lands other than National Forest System lands.

Area of Evaluation

Inventory, growth, mortality, and harvest projections in this report pertain only to the State of Idaho. The inventory data upon which growth, mortality, and harvest projections on non-NFS lands were made is the result of a survey done by the U.S. Forest Service, Forest Survey Research Work Unit at the Intermountain Station in Ogden, Utah (Van Hooser, 1984; Van Hooser and Green, 1985). Basically, the information was collected by two major survey units (Figure 1). Projections for NFS lands were developed as a result of individual Forest plans on each administrative unit in the State of Idaho.

NFS Lands

Within the State of Idaho there are 10 administrative units for NFS lands. In Northern Idaho they are the Clearwater National Forest, the Idaho Panhandle National Forests, and the Nezperce National Forest. In Southern Idaho they are the Boise, Caribou, Challis, Payette, Salmon, Sawtooth, and Targhee National Forests. For the purposes of this report, individual Forest harvests (Allowable Sale Quantities - ASQ's) were summed for a range of alternatives already considered in the Forest planning process. The preferred, current direction, high market, low market, and departure on the preferred alternatives were used. The sum of the ASQ's for Northern and Southern Idaho can be seen in table 1.

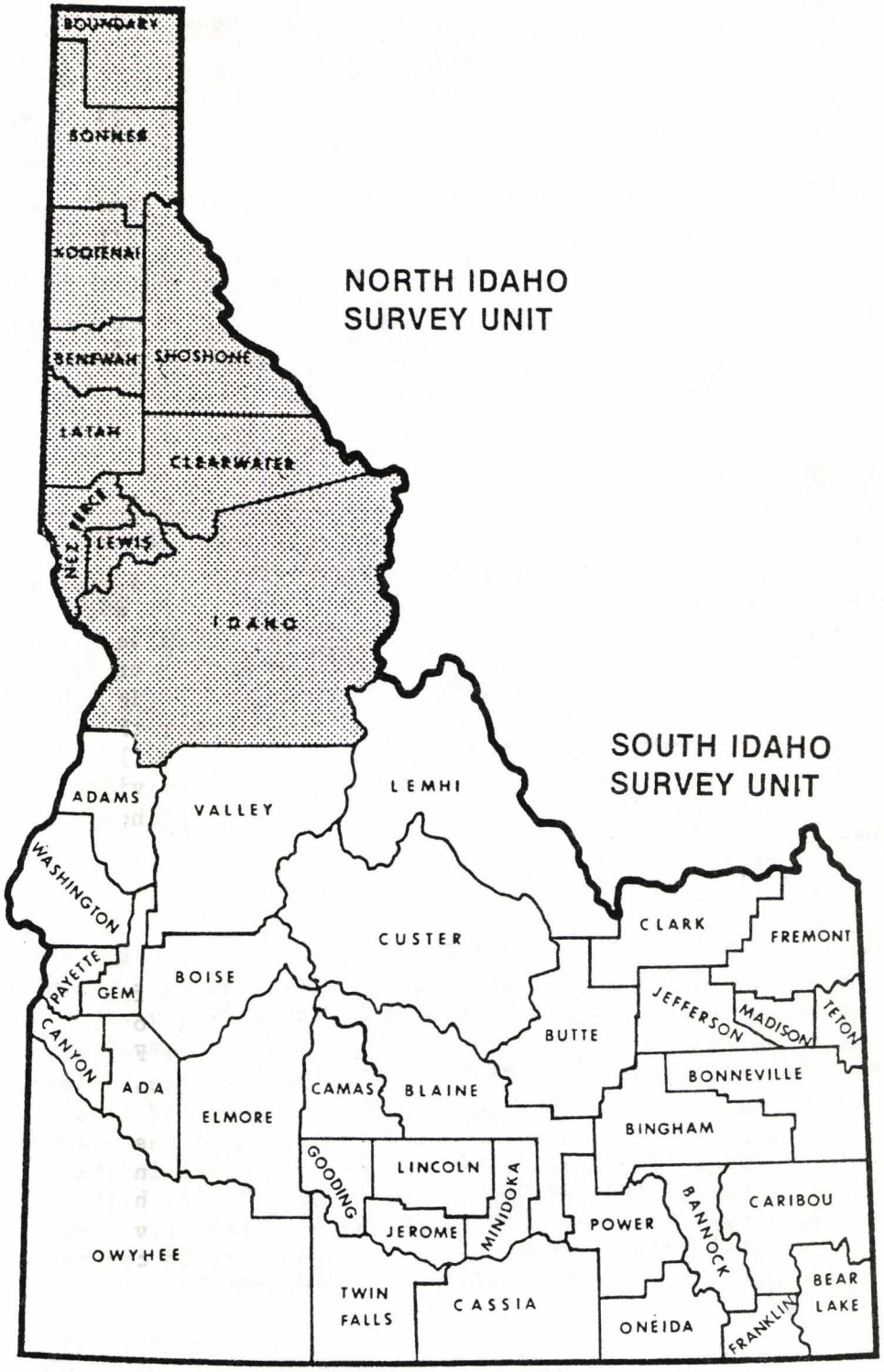


Figure 1. -- Idaho Counties and Survey Units.

Table 1. -- Allowable Sale Quantities (in MMBF/year) on NFS Lands for Northern and Southern Idaho by alternative.

NORTHERN IDAHO:	Years				
Alternative	1986-1995	1996-2005	2006-2015	2016-2025	2026-2035
A. Preferred	502	672	725	831	909
B. Current Dir.	515	808	803	923	1016
C. High Market	774	1000	1054	1155	1254
D. Low Market	332	576	603	706	787
E. Departure	487	686	721	841	1322

SOUTHERN IDAHO:	Years				
Alternative	1986-1995	1996-2005	2006-2015	2016-2025	2026-2035
A. Preferred	267	255	255	260	265
B. Current Dir.	297	273	249	250	256
C. High Market	406	427	426	425	426
D. Low Market	142	134	122	126	134
E. Departure	267	255	255	260	265

It should be noted that the individual Forest plans are at various stages in the Forest planning process. The current status of the individual Forest plans in Idaho can be seen in table 2. For more detail on Forest plans, a copy of each can be obtained by contacting each Forest's individual administrative unit or supervisor's office.

In the National Forest planning process each Forest in the State of Idaho is reevaluating the management of its inventoried roadless areas. Given the sensitivity of this issue, table 3 identifies the proportion of National Forest harvest to come from roadless areas during the planning period for each of the alternatives to be used in this report.

Table 2. -- Forest Plan Status

Forest	Pre-draft	Draft	Final	Implementation
Clearwater		X		
Idaho Panhandle		X		
Nezperce		X		
Boise	X			
Caribou			X	
Challis		X		
Payette		X		
Salmon		X		
Sawtooth		X		
Targhee				X

Table 3. -- Amount of National Forest Timber Harvest in inventoried roadless areas (MMBF/year-first decade).**

	Alternative				
	Preferred	Current Dir	High Mark	Low Market	Departure
N. Idaho	173	178	267	115	168
S. Idaho	67	73	103	34	67

** Amounts in the above table are based on the 10-year sale schedules developed for the preferred alternative in Forest plans. Sale schedules (in detail) were not developed for the other alternatives, therefore the same percentage breakdown on the preferred alternative was used for all alternatives.

Private Industrial Lands

Alternatives considered on private industrial lands are:

1) Harvest levels projected into the future initially using the same level as the average of the past ten years.

2) Harvest levels will be at the level necessary to maintain a constant total level of harvest in the sub-state areas (Northern and Southern Idaho) when added to the levels assumed for other ownerships. See the section entitled, "Historical Harvests for the State of Idaho" for more information on the total harvest.

3) Harvest levels will decrease 25% from the past ten year average (projected) by the year 1990 and 50% by the year 2000.

Other Ownerships

Alternatives considered for non-industrial private, state, and other public lands are:

1) Harvest levels projected into the future initially using the same level as the average of the past ten years.

2) Harvest levels will be at the level necessary to maintain a constant total level of harvest in the sub-state areas (Northern and Southern Idaho) when added to the levels assumed for other ownerships.

Operable Lands for Timber Production

Inventories for private industrial, non-industrial private, state, and other publics lands are based on 100% of their forest land regardless of whether it is operable for timber production or not. Therefore, the acres in each ownership were reduced by the percentage of non-operable lands before any additional analysis took place. To avoid disclosing information on the operations of individual firms, percentage figures on non-operable acres for private industrial lands were combined to one single figure. 5% of the private industrial lands were considered non-operable. In Northern Idaho, 9% of the state lands and other public lands were determined to be non-operable. In Southern Idaho, 22% of the state and other public lands were determined to be non-operable. A figure of 70% operable lands was use for private non-industrial lands. A sensitivity analysis on the 70% non-industrial private lands can be found in appendix B.

The criteria of lands suited for timber production was already taken into consideration in the development of the ASQ's for Forest plan alternatives for National Forest System lands. Therefore, no adjustment in acres was needed for this ownership class.

Historical Harvests for the State of Idaho

The tables in appendix A are the Idaho timber harvest summaries for Northern Idaho, Southern Idaho, and the total State of Idaho. Given the extremely low harvest levels in 1981 and 1982, it was felt that the arithmetic mean would not be the most informative central value to use for comparison purposes in this report. Therefore, the median, an alternative to the mean was used. The median of the total harvest (between 1975-1984) for each table is:

Total Idaho: 1,730,889 MBF

The median of the State total was prorated to the Northern and Southern areas given the appropriate percentages of their particular mean totals (the individual medians for Northern and Southern Idaho were not used because they are not additive):

Means:

Northern Idaho:	1,274,919 MBF
Southern Idaho:	377,060 MBF
Total Idaho:	1,651,979 MBF

Northern Idaho:

$$\frac{1{,}274{,}519}{1{,}651{,}979} = 77.2\% \quad \text{therefore, } 77.2\% \times 1{,}730{,}889 = 1{,}336{,}246 \text{ MBF}$$

Southern Idaho:

$$\frac{377{,}060}{1{,}651{,}979} = 22.8\% \quad \text{therefore, } 22.8\% \times 1{,}730{,}889 = 394{,}643 \text{ MBF}$$

These are the figures that were used to represent the median year for timber harvest in the State of Idaho. These numbers will be used in Northern and Southern Idaho for comparative purposes in the development of the supply scenarios discussed below.

Use of the TRAS Model

The Timber Resource Analysis System model (TRAS) was used to develop the different inventory, growth, mortality, and harvest projections for non-NFS ownerships. TRAS is a timber volume projection model or simulation model. In TRAS, the user inputs the harvests, both by the number of stands desired to be harvested in any given period and the volume from those stands. TRAS utilizes a stand table projections technique to simulate the impacts of user input harvest levels. The model either runs until the inventory is depleted or until the planning horizon is over. It has no net cash flow accounting, will not achieve a regulated target forest, and accepts no constraints on harvest scheduling other than those implicit in inventory, growth, and yield.

The major use of the TRAS model is to update surveys with varying completion dates to a common date for regional and national compilations of data. In this report, it is used for long-term projections. The purpose of long-term projections is somewhat different from that of updating. Aside from covering a longer period of time, the purpose of a projection is not to determine the most likely outcome, but to illustrate the consequences of a range of assumptions regarding the inputs (Larson and Goforth, 1970; Larson and Goforth, 1974).

TRAS runs were done in two stages. The first stage was to develop an initial set of runs for the supply scenarios discussed below. Given the results of this first stage, the supply scenarios were then assessed and evaluated for any information that might be missing which is needed to meet and/or satisfy the objectives of this report. Numerous supply projection scenarios were possible, but an attempt was made to keep the analysis at a minimum. This process helped focus the different supply scenarios on the issue in which we were attempting to address, yet provided for a range of scenarios which covered a wide range of possibilities. After evaluating the initial set of scenarios from stage one, a second set of supply scenarios were developed, and the necessary TRAS runs were performed.

The TRAS runs required for the initial stage (stage one) of this report were:

TRAS#1 - Base Run - 10-year average for Private Industrial

TRAS#2 - Base Run - 10-year average for Private Non-Industrial

TRAS#3 - Base Run - 10-year average for Other Public

TRAS#4 - Base Run - 10-year average for State

TRAS#5 - Non-Industrial Private makes up the gap, all other TRAS ownerships at 10-year av, NFS at Preferred alt.

TRAS#6 - Other Public makes up the gap, all other TRAS ownerships at 10-year av, NFS at Preferred alt.

TRAS#7 - State makes up the gap, all other TRAS ownerships at 10-year av, NFS at Preferred alt.

TRAS#8 - Non-Industrial Private makes up the gap, all other TRAS ownerships at 10-year av, NFS at Cur. Dir. alt.

TRAS#9 - Other Public makes up the gap, all other TRAS ownerships at 10-year av, NFS at Cur. Dir. alt.

TRAS#10- State makes up the gap, all other TRAS ownerships at 10-year av, NFS at Cur. Dir. alt.

TRAS#11- Private Industrial makes up the gap, all other TRAS ownerships at 10-year av, NFS at Preferred alt.

TRAS#12- Private Industrial makes up the gap, all other TRAS ownerships at 10-year av, NFS at Cur. Dir. alt.

TRAS#13- Private Industrial makes up the gap, all other TRAS ownerships at 10-year av, NFS at High Mark alt.

TRAS#14- Private Industrial makes up the gap, all other TRAS ownerships at 10-year av, NFS at Low Mark alt.

TRAS#15- Private Industrial makes up the gap, all other TRAS ownerships at 10-year av, NFS at Departure alt.

TRAS#16- Private Industrial reduced (25%@1990,50%@2000).

It should be noted that the above runs were done individually for both Northern and Southern Idaho.

Supply Scenarios to be Considered in Stage One

Each scenario was developed considering several combinations of different alternatives on different ownership classes. Some scenarios, such as 1-5, and 11-15, were built around the objective of adding up the total harvests on the various ownerships and then displaying the cumulative impacts of each in terms of changes in job numbers and income dollars. Other scenarios, such as 1a-1c, 2a-2c, and 6-10, were built around the objective of evaluating the potential for individual ownership classes to meet the 10 year median volume (defined previously) for the State of Idaho. In other words, if all other ownerships are at a certain fixed rate in terms of harvest levels, can ownership class x provide enough volume meet the total of 1.73 billion BF/year for the State of Idaho?

The supply scenarios that were developed for stage one of this analysis are in table 4.

Supply Scenarios to be Considered in Stage Two

Given the results of the supply scenarios evaluated in stage one, it was felt that more attention needed to be focused on those scenarios where the private industrial lands were operating at a reduced harvest level. Given this, several additional scenarios were developed in stage two. The TRAS runs required for stage two of this report were:

TRAS#17- Non-Industrial Private makes up the gap, private industrial is at the reduced level, all other TRAS ownerships at 10-year av, NFS at Preferred alt.

TRAS#18- Other Public makes up the gap, private industrial is at the reduced level, all other TRAS ownerships at 10-year av, NFS at Preferred alt.

TRAS#19- State makes up the gap, private industrial is at the reduced level, all other TRAS ownerships at 10-year av, NFS at Preferred alt.

TRAS#20- Non-Industrial Private makes up the gap, private industrial is at the reduced level, all other TRAS ownerships at 10-year av, NFS at Cur. Dir. alt.

TRAS#21- Other Public makes up the gap, private industrial is at the reduced level, all other TRAS ownerships at 10-year av, NFS at Cur. Dir. alt.

TRAS#22- State makes up the gap, private industrial is at the reduced level, all other TRAS ownerships at 10-year av, NFS at Cur. Dir. alt.

Again, it should be noted that the above runs were done individually for both Northern and Southern Idaho. The supply scenarios that were developed for stage two of this analysis are in table 5.

RESULTS:

The results of the above scenarios are reported by three major marketing zones for the State of Idaho (Figure 2). They are the Northern, Southwest, and Southwest marketing zones.

Northern Marketing Zone

The Northern marketing zone consists of all counties north of the southern border of Idaho county. According to Rae (1981), large processing mills (greater than 25 MMBF/year) can be found in the following towns and counties within the Northern marketing zone:

Town	County
Coeur d´alene	Kooteni
Post Falls	Kooteni
Grangeville	Idaho
Kamiah	Lewis
Lewiston	Nez Perce
Moyie Springs	Boundary
Potlatch	Latah
Priest River	Bonner
Saint Maries	Benewah
Pierce	Clearwater

Numerous small and moderate size timber processing mills can also be found within these and other counties in the Northern marketing zone. Figure 3 shows the location of active wood products plants in the area.

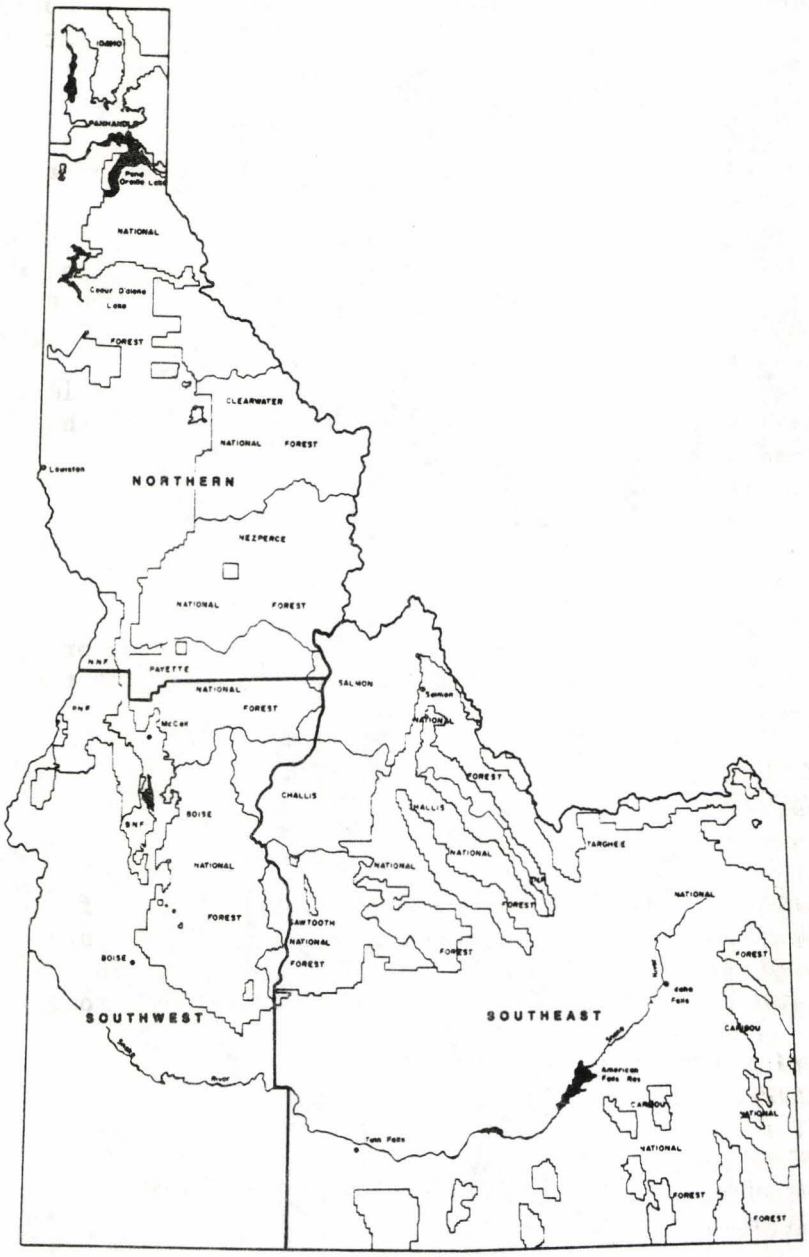


Figure 2. -- Marketing Zones and National Forest Boundaries in Idaho.

Table 4. -- Supply Scenarios for Stage One.

Scenario	Private Industrial	Private Non-ind	Other Public	State	NFS
1	10-year av(TRAS#1)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	Preferred alt
1a	10-year av(TRAS#1)	Make up gap(TRAS#5)	10-year av(TRAS#3)	10-year av(TRAS#4)	Preferred alt
1b	10-year av(TRAS#1)	10-year av(TRAS#2)	Make up gap(TRAS#6)	10-year av(TRAS#4)	Preferred alt
1c	10-year av(TRAS#1)	10-year av(TRAS#2)	10-year av(TRAS#3)	Make up gap(TRAS#7)	Preferred alt
2	10-year av(TRAS#1)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	Cur. Dir. alt
2a	10-year av(TRAS#1)	Make up gap(TRAS#8)	10-year av(TRAS#3)	10-year av(TRAS#4)	Cur. Dir. alt
2b	10-year av(TRAS#1)	10-year av(TRAS#2)	Make up gap(TRAS#9)	10-year av(TRAS#4)	Cur. Dir. alt
2c	10-year av(TRAS#1)	10-year av(TRAS#2)	10-year av(TRAS#3)	Make up gap(TRAS#10)	Cur. Dir. alt
3	10-year av(TRAS#1)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	High Mark alt
4	10-year av(TRAS#1)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	Low Mark alt
5	10-year av(TRAS#1)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	Departure alt
6	Make up gap(TRAS#11)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	Preferred alt
7	Make up gap(TRAS#12)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	Cur. Dir. alt
8	Make up gap(TRAS#13)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	High Mark alt
9	Make up gap(TRAS#14)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	Low Mark alt
10	Make up gap(TRAS#15)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	Departure alt
11	Reduced (TRAS#16)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	Preferred alt
12	Reduced (TRAS#16)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	Cur. Dir. alt
13	Reduced (TRAS#16)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	High Mark alt
14	Reduced (TRAS#16)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	Low Mark alt
15	Reduced (TRAS#16)	10-year av(TRAS#2)	10-year av(TRAS#3)	10-year av(TRAS#4)	Departure alt

Table 5. -- Supply Scenarios for Stage Two.

Scenario	Private Industrial	Private Non-ind	Other Public	State	NFS
11a	Reduced (TRAS#16)	Make up gap(TRAS#17)	10-year av(TRAS#3)	10-year av(TRAS#4)	Preferred alt
11b	Reduced (TRAS#16)	10-year av(TRAS#2)	Make up gap(TRAS#18)	10-year av(TRAS#4)	Preferred alt
11c	Reduced (TRAS#16)	10-year av(TRAS#2)	10-year av(TRAS#3)	Make up gap(TRAS#19)	Preferred alt
12a	Reduced (TRAS#16)	Make up gap(TRAS#20)	10-year av(TRAS#3)	10-year av(TRAS#4)	Cur. Dir. alt
12b	Reduced (TRAS#16)	10-year av(TRAS#2)	Make up gap(TRAS#21)	10-year av(TRAS#4)	Cur. Dir. alt
12c	Reduced (TRAS#16)	10-year av(TRAS#2)	10-year av(TRAS#3)	Make up gap(TRAS#22)	Cur. Dir. alt

Southwest Marketing Zone

The Southwest marketing zone consists of all counties south of Idaho county and west of the eastern borders of Valley, Boise, Elmore, and Owyhee counties. According to Rae (1981), large processing mills (greater than 25 MMBF/year) can be found in the following towns and counties within the Southwest marketing zone:

Town	County
Cascade	Valley
Council	Adams
Tamarack/New Meadows	Adams
Emmett	Gem
Horseshoe Bend	Boise

Numerous small and moderate size timber processing mills can also be found within these and other counties in the Southwest marketing zone. Figure 3 shows the location of active wood products plants in the area.

Southeast Marketing Zone

The Southeast marketing zone consists of all counties south of Idaho county and east of the eastern borders of Valley, Boise, Elmore, and Owyhee counties. According to Rae (1981), large processing mills (greater than 25 MMBF/year) can be found in the following towns and counties within the Southeast marketing zone:

Town	County
Rexburg	Madison
Saint Anthony	Fremont
Salmon	Lemhi

Numerous small and moderate size timber processing mills can also be found within these and other counties in the Southeast marketing zone. Figure 3 shows the location of active wood products plants in the area.

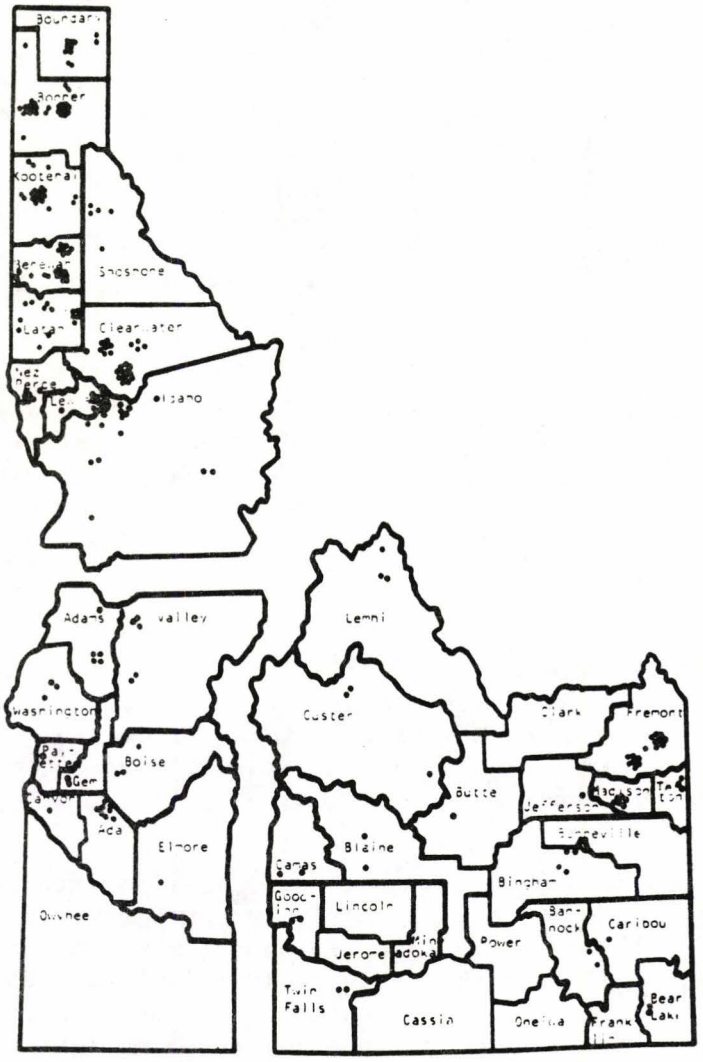


Figure 3. -- Location of Active Wood Products Plants by Marketing Zone (After Keegan and others, 1982)

Historical Timber Harvests on NFS lands in Idaho

Historical sawtimber volumes for harvests on National Forest System land within the State of Idaho is displayed in table 6.

A specified proportion of National Forest system land timber prepared for sale is targeted for purchasers defined as small business. The small business set aside (SBA) program provides for changes in the preparation of timber required to be set aside based on actual purchasers in previous years. In Northern Idaho there has been a significant increase in the proportion of timber set aside for small business over the period 1969 through 1984. In 1969 the percentages set aside for small businesses was 28 percent of total harvest. By 1982-1984 the proportion of sales reserved for small business had increased to 49 percent of total harvest.

In Southern Idaho there has been only a slight increase in the proportion of timber set aside for small business over the period 1969 through 1984. In 1969 the percentages set aside for small businesses was 34 percent of total harvest. By 1982-1984 the proportion of sales reserved for small business had increased to approximately 37 percent of total harvest.

For purposes of this report the percentage of SBA set aside experienced in the most recent period was assumed to be the percentage for future National Forest System land harvests. The expected SBA portion of the total harvest is displayed for each scenario.

Supply Scenarios Displayed in Detail

Tables displaying the projected harvests, sawtimber inventories and growing stock inventories for each scenario by ownership class for Northern and Southern Idaho can be seen in appendix C. Appendix C also displays historical production and harvests from 1969 to 1985, and a breakdown between small business set aside and large industry for each projected scenario. Several supply scenarios are highlighted below in detail to provide a better understanding and interpretation of the individual results.

Table 6. -- Historical Timber Harvests on NFS lands for Northern and Southern Idaho, (Broken down by Large Industry and Small Business Portions)

Northern Idaho:

Year	Large Industry Portion	Small Business Portion	Total
1969	525	201	726
1970	395	151	546
1971	371	154	525
1972	342	143	485
1973	333	138	471
1974	341	142	483
1975	274	114	388
1976	435	189	624
1977	351	153	504
1978	377	164	541
1979	345	150	495
1980	289	125	414
1981	168	160	328
1982	130	124	254
1983	258	245	503
1984	222	210	432
1985	226	215	441

Southern Idaho:

Year	Large Industry Portion	Small Business Portion	Total
1969	236	120	356
1970	223	116	339
1971	192	100	292
1972	240	125	365
1973	230	123	353
1974	224	124	348
1975	165	89	254
1976	279	148	427
1977	229	122	351
1978	170	109	279
1979	229	130	359
1980	160	86	246
1981	157	93	250
1982	108	63	171
1983	162	94	256
1984	159	91	250
1985	191	112	303

Northern Idaho

Four scenarios and three variations of one of the four base scenarios for Northern Idaho are discussed below in detail to provide a summary of the possible supply combinations.

Scenario 1 for the analysis is the preferred alternative harvest level proposed in the National Forest Land Management plans combined with the harvest at the average level for the past 10 years projected into the future for all other ownerships. To place these projections in their proper perspective, it may be useful to first compare the individual ownerships projected harvest with their projected inventories. In this scenario: the National Forest System lands are projected to harvest approximately 0.9% of their inventory in 1986, and 1.6% by the year 2030; the private industrial ownership class lands are projected to harvest approximately 6.9% of their inventory in 1986, but their inventory is exhausted by the year 2030; the private nonindustrial ownership class lands are projected to harvest approximately 4.8% of their inventory in 1986, and 6.0% by the year 2030; the other public ownership class lands are projected to harvest approximately 1.4% of their inventory in 1986, and 0.6% by the year 2030; and the State ownership class lands are projected to harvest approximately 1.9% of their inventory in 1986, and 1.0% by the year 2030. For the time period from 1986 through 2000 this scenario in total provides a harvest that meets the median harvest of 1,336 million board feet. While the total harvest meets the median figure for the short term, the contribution of individual ownership classes to the total harvest changes significantly.

Private industrial harvest levels of the past 10 years cannot be sustained by the available inventory and begin decreasing significantly by 1996. By 2010 the sawtimber inventories of the private industrial ownerships in Northern Idaho would be essentially exhausted. In contrast the continuation of the cutting rate of the past 10 years permits an increase in the inventories for other public ownerships. Inventory levels for private non-industrial ownerships decrease slightly in the base scenario. Harvests projected for National Forest System lands the preferred alternative increase substantially throughout the period analyzed in this study and offset the reduction in harvest caused by inventory depletion in the private industrial ownerships.

In addition, unregulated volumes of about 45 million board feet is expected to be available from 1986 through 1995, therefore total harvests would actually be slightly above current levels in scenario 1. The possibility of additional salvage volume is discussed in the section on opportunities. Examination of long term inventory projections (2010 and 2030) indicate a continuing increase in other public ownership inventories and only small changes in the private non-industrial inventory. With the exception of the private industrial ownership class of owners, no long term supply reductions are

indicated. Figure 4 displays the projected harvest by ownership class and the projected harvest by ownership class for scenario 1.

Because of the projected inventory problems (early liquidation of the inventory) with private industrial ownerships scenarios 11 through 11c were developed on the assumption harvests from the private industrial ownerships would decrease 25 percent by the year 1990 and 50 percent from the past 10-year average by the year 2000. This level of private industrial harvest provides the basis for the second scenario discussed in detail.

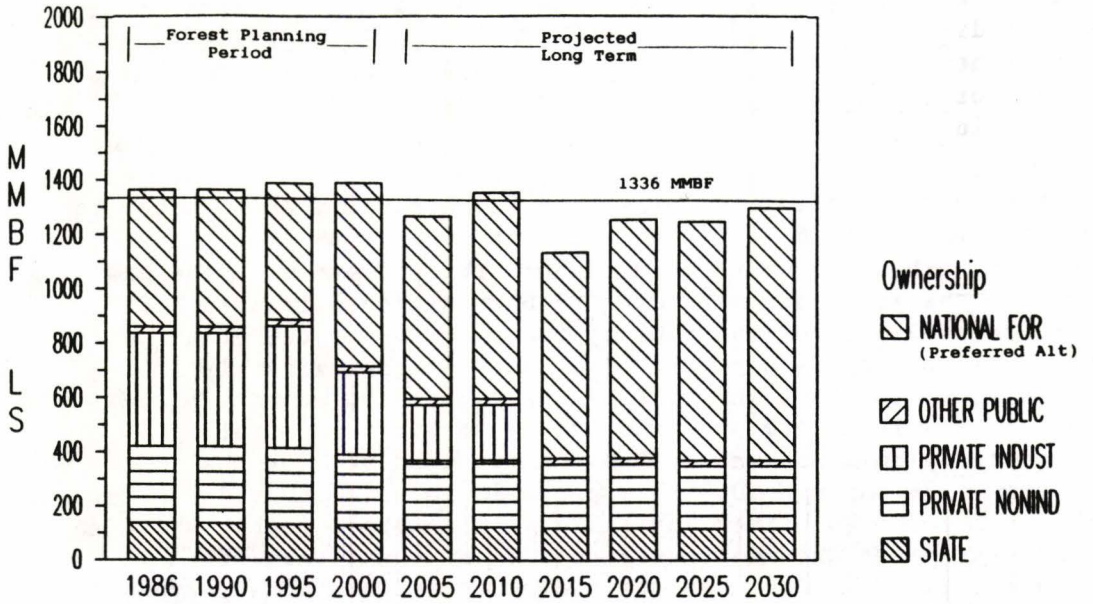


Figure 4. -- Projected Harvest by Ownership Class for Scenario 1 (Northern Idaho)

Scenario 11 is a combination of the National Forest System preferred alternative, the reduction described above for the private industrial ownership class and the past 10-year average harvest level for non-industrial private, other public, and State ownership classes. In this scenario the total harvest falls short of the 1,336 million board feet median for Northern Idaho through 1990 by 48 million board feet. This shortfall (the difference between the median figure of 1,336 MMBF and the projected total of scenario 11) increases to 141 million board feet for the period 1990 through 1995 and then decreases to 1986 levels. Increases projected under the National Forest System preferred alternative are not large enough to offset the immediate and significant decrease in the amount of timber harvested from the private industrial ownership class. Inventory levels are adequate to sustain this reduced level of harvest through the year 2030. Figure 5 displays the projected harvests by ownership for scenario 11.

As indicated in the discussion for scenario 1, harvest levels at the past 10-year average provides for a continued accumulation of inventory for other public and State ownerships as well as a maintenance of

current inventory levels for the non-industrial private ownership class. This leads to the question -- given the decrease in harvest projected in scenario 11 and the surplus of inventory for other ownerships, could the short-falls for scenario 11 be made up by increasing harvests on non-industrial private, other public, and State ownerships?

To answer this question, three variants of scenario 11 were examined. Due to different modeling and analysis limitations it is possible to examine the ability of ownership classes to make up the supply short-fall only one ownership class at a time -- not in combination. In reality, harvest level changes would probably occur simultaneously on several different ownerships. Therefore, for the purposes of this analysis, these projections should be considered as the maximum potential for the individual ownerships being evaluated to make up the short-fall in any one scenario.

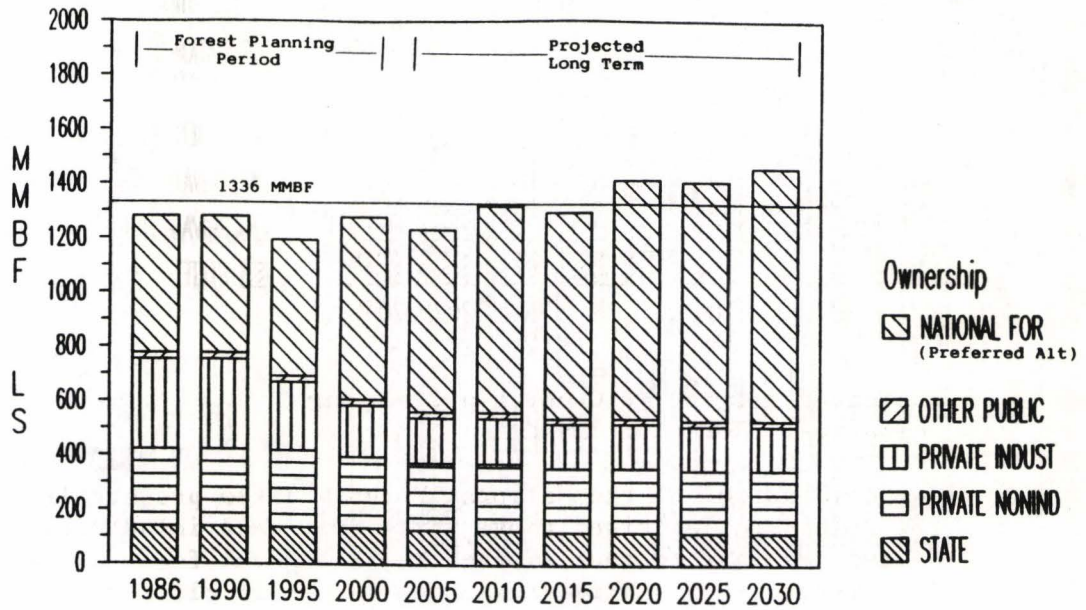


Figure 5. -- Projected Harvest by Ownership Class for Scenario 11 (Northern Idaho)

Scenario 11a combined the National Forest System lands preferred alternative harvest with the reduced private industry harvest, the 10-year average for State and other public and considered increases by non-industrial private owners. In this case, private non-industrial owners alone can increase their harvest to make up the supply short-fall through the analysis period. In the long run, however,

harvests at the required level lead to early liquidations of the inventory in the Non-industrial private ownership class after the year 2020. Figure 6 displays the projected harvests by ownership class for scenario 11a.

The next ownership class examined for its ability to increase its harvest to make up the supply short-fall is the other public class in Scenario 11b. As is the case with scenario 11a, the inventory for this individual ownership class is adequate to fill in supply short-falls so that the total harvest for Northern Idaho meets the 1,336 million board foot median throughout the analysis period. Again, long term inventory projections indicate that this individual ownership class is expected to provide the required increase in harvests but sawtimber inventory will be depleted after 2020. Given the relatively small total inventory for this particular class to begin with, this result was not unexpected. Figure 7 displays the projected harvest by ownership class for scenario 11b.

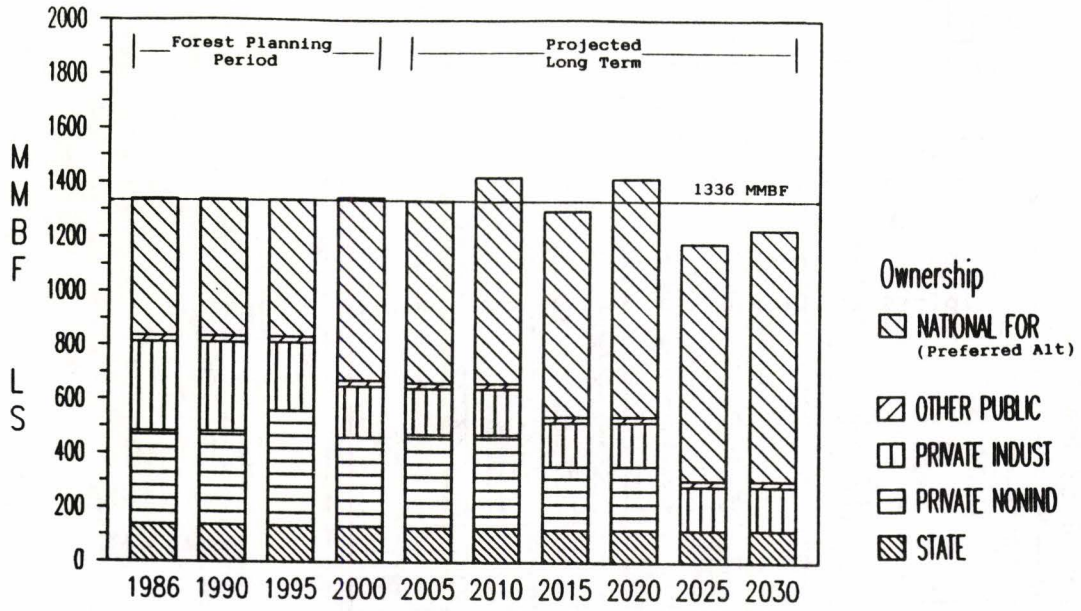


Figure 6. -- Projected Harvest by Ownership Class for Scenario 11a (Northern Idaho)

The last variant of Scenario 11 examined the ability of the State ownership class to make up the supply shortfall (the difference between the median figure of 1,336 MMBF and the projected total of scenario 11). This scenario (11c) again indicates that the State ownership class alone can offset immediate reductions in private industrial harvests so that the total median volume for Northern Idaho is achieved. Unlike the previous two scenarios (11a and 11b), the State ownership class inventory is large enough so that there are no long term supply problems.

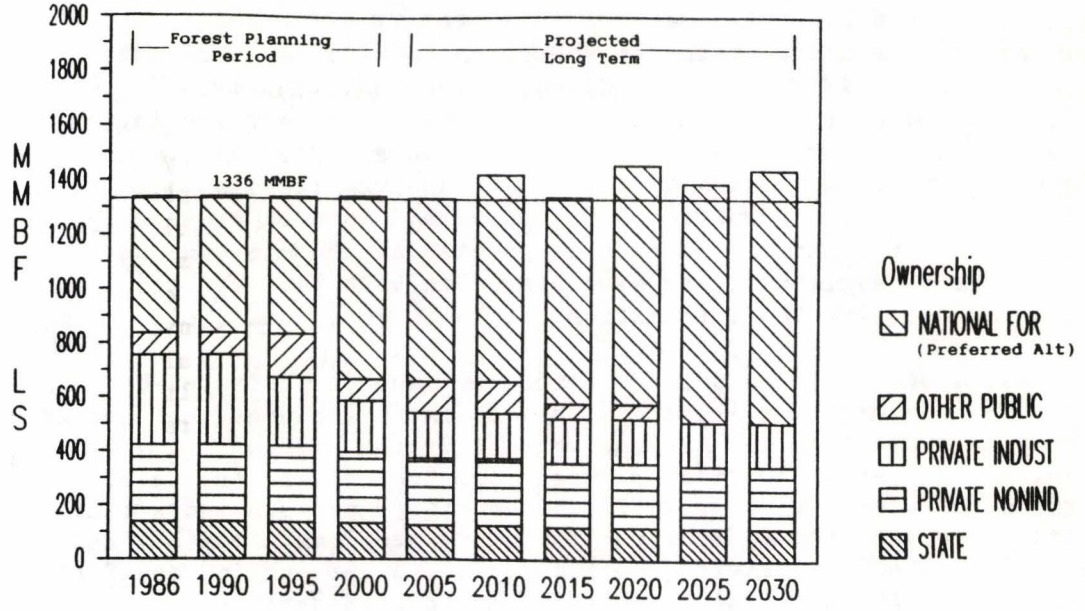


Figure 7. -- Projected Harvest by Ownership Class for Scenario 11b (Northern Idaho)

Figure 8 displays the projected harvests by ownership class for scenario 11c.

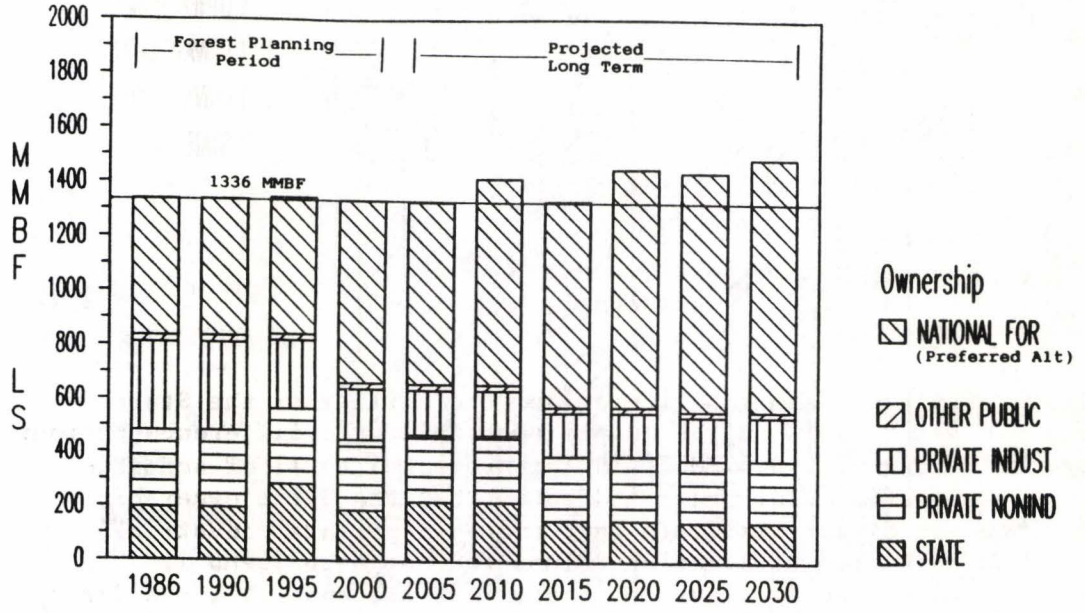


Figure 8. -- Projected Harvest by Ownership Class for Scenario 11c (Northern Idaho)

The remaining two scenarios considered in detail examined the maximum harvest that could be sustained from an inventory stand point, and the minimum harvest resulting from the scenarios considered. The only restriction in the TRAS runs considered in these alternatives is that there was no indication of long-term inventory problems (liquidation of the inventory before the year 2030). These two alternatives were developed by mixing several different TRAS runs results displayed in appendix C. These two scenarios have not been discussed previously in this report. There primary purpose is to display the minimum and maximum harvest levels that can be achieved in both Northern and Southern Idaho (using the information available in appendix C).

The highest sustainable output for Northern Idaho is portrayed by Scenario 99. As might be expected, this scenario includes the several projected harvests from the National Forest System high market alternative. Private Industrial harvests are included at the level of reductions included for Scenario 11, since higher private industrial ownership harvests lead to long run inventory problems. The highest harvests indicated for private non-industrial, other public, and State ownerships were those calculated to fill in various supply shortages. In scenario 99, total harvest for Northern Idaho increases by 27 percent above the median figure to 1699 million board feet for the period 1986 through 1990. In the following 5-year period harvests increase to 1,872 million board feet. It is significant to note that harvests at levels above 1,500 million board feet have not been recorded in Northern Idaho in the entire historical period analyzed (1969 through 1984). Figure 9 displays the projected harvests by ownership for scenario 99.

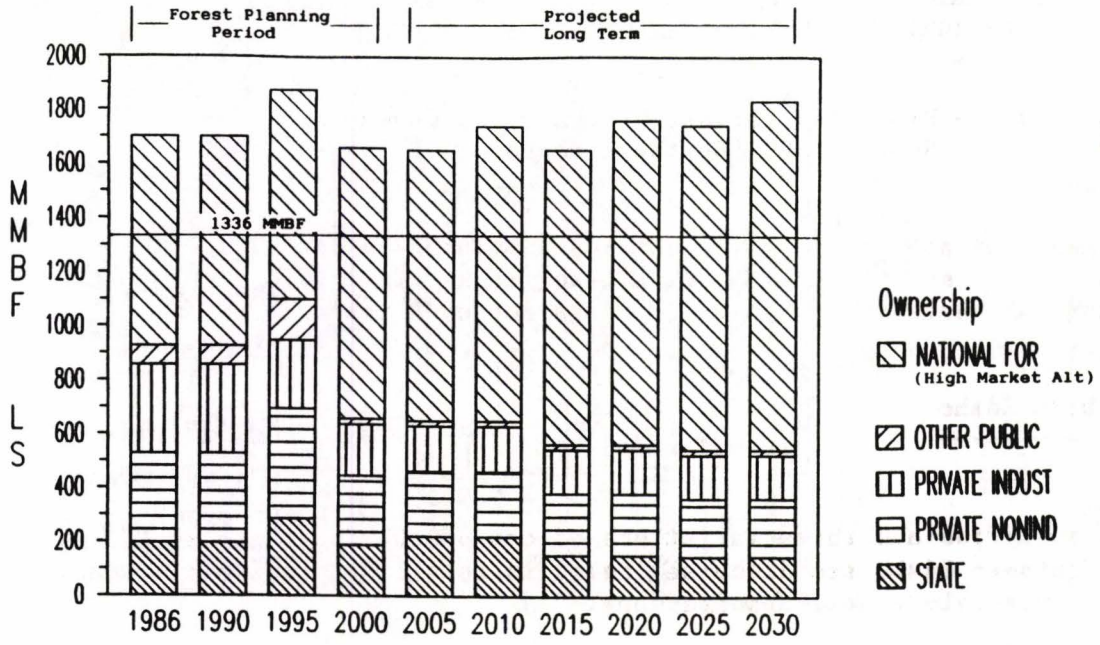


Figure 9. -- Projected Harvest by Ownership Class for Scenario 99 (Northern Idaho)

At the other extreme, Scenario 00 was defined to produce the lowest total harvest (again the one constraint is that there would be no exhaustion of inventory in either the long run or short run). The National Forest System lands harvest was developed from the low market alternative. Private Industrial harvest was the same as the level used in Scenario 99 - the reduced level. In Scenario 00 the total harvest for Northern Idaho is 1107 million board feet for the 1986 through 1990 period. In the period 1991 through 1995 total harvest falls to 1024 million board feet - a decrease of slightly more than 23 percent from the median figure of 1336 million board feet. Figure 10 displays the projected harvest by ownership class for scenario 00.

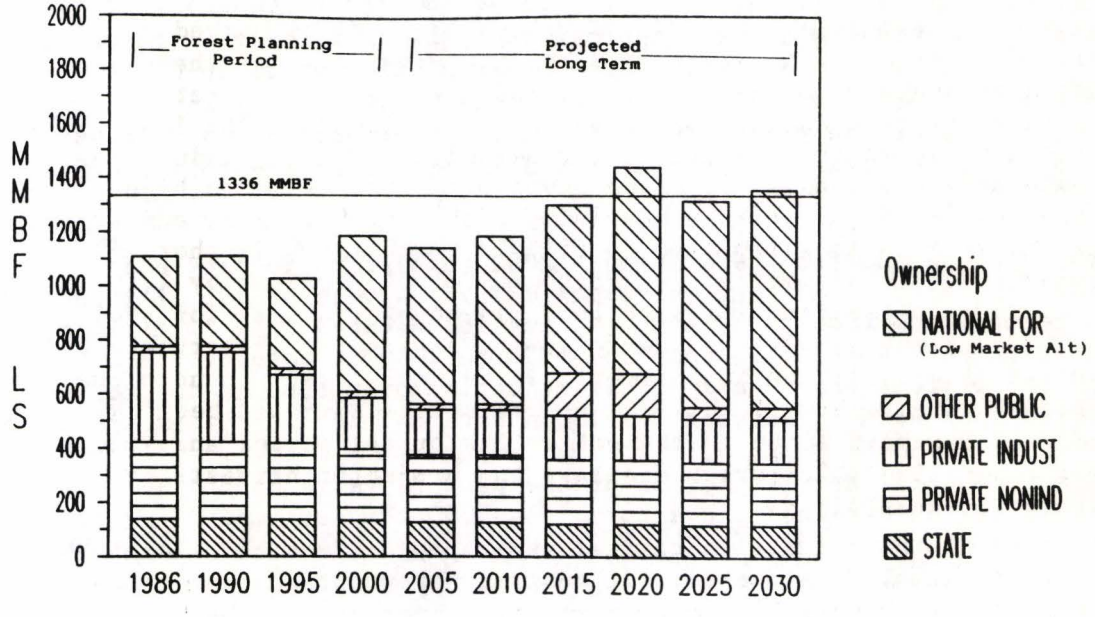


Figure 10. -- Projected Harvest by Ownership Class for Scenario 00 (Northern Idaho)

A summary of all the supply scenarios displayed in detail for Northern Idaho can be seen in figure 11. These graphs also display the historical harvests by ownership class for each scenario.

Southern Idaho

Four scenarios and three variations of one of the four base scenarios for Southern Idaho are discussed below in detail to provide a summary of the possible supply combinations.

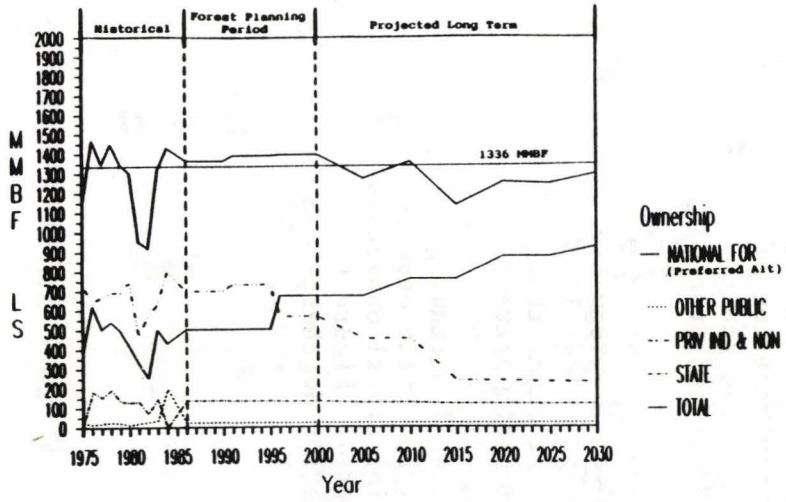
As with Northern Idaho, Southern Idaho's scenario 1 for the analysis is the preferred alternative harvest level proposed in the National Forest Land Management plans combined with the harvest at the average level

for the past 10 years projected into the future for all other ownerships. To place these projections in their proper perspective, it may be useful to first compare the individual ownerships projected harvest with their projected inventories. In this scenario: the National Forest System lands are projected to harvest approximately 1.4% of their inventory in 1986, and 1.8% by the year 2030; the private industrial ownership class lands are projected to harvest approximately 6.9% of their inventory in 1986, but their inventory is exhausted by the year 2030; the private nonindustrial ownership class lands are projected to harvest approximately 1.0% of their inventory in 1986, and 0.4% by the year 2030; the other public ownership class lands are projected to harvest approximately 0.4% of their inventory in 1986, and 0.2% by the year 2030; and the State ownership class lands are projected to harvest approximately 0.9% of their inventory in 1986, and 0.9% by the year 2030.

For the time period from 1986 through 2000 this scenario does not provide a harvest level that meets the median harvest of 395 million board feet. From 1986 to 1995 this scenario resulted in a 31 million board feet/year short-fall, and from 1996 to 2000 it resulted in a 43 million board feet short-fall. This reduction over time is due to projected decreases in harvest levels on National Forest System lands.

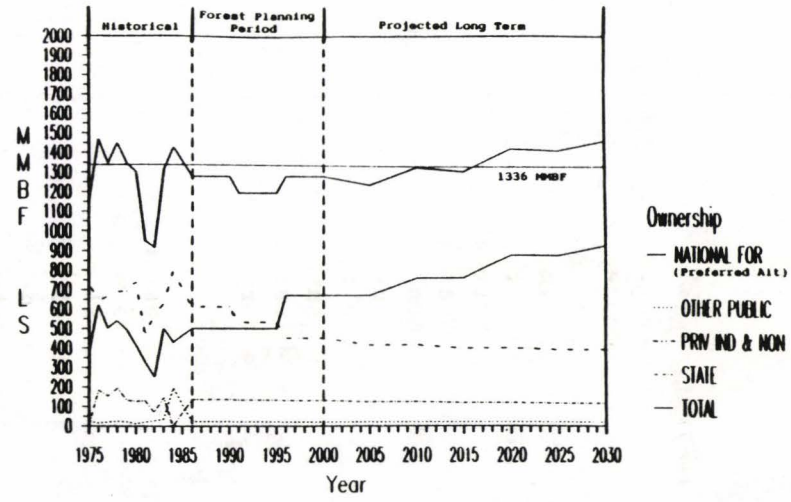
Private industrial harvest levels of the past 10 years cannot be sustained by the available inventory. By 2000 the sawtimber inventories of the private industrial ownerships in Southern Idaho would be essentially exhausted. In contrast the continuation of the cutting rate of the past 10 years permits an increase in the inventories for private non-industrial, other public, and State ownerships.

In addition to the above projected volumes, additional unregulated volumes would be expected to be available from 1986 through 1995, therefore total harvests would actually be slightly higher than projected in scenario 1. The possibility of additional salvage volume is discussed in the section on opportunities. Examination of long term inventory projections (2010 and 2030) indicate a continuing increase in private non-industrial, other public, and State ownership inventories. With the exception of the private industrial ownership class, no long term inventory problems are indicated. Figure 12 displays the projected harvest by ownership class for Southern Idaho's scenario 1.



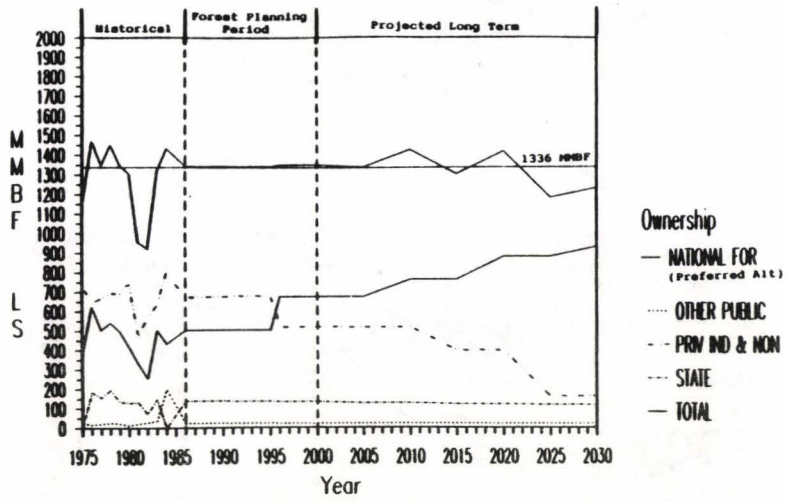
Harvest Volume

Scenario 01 for North Idaho



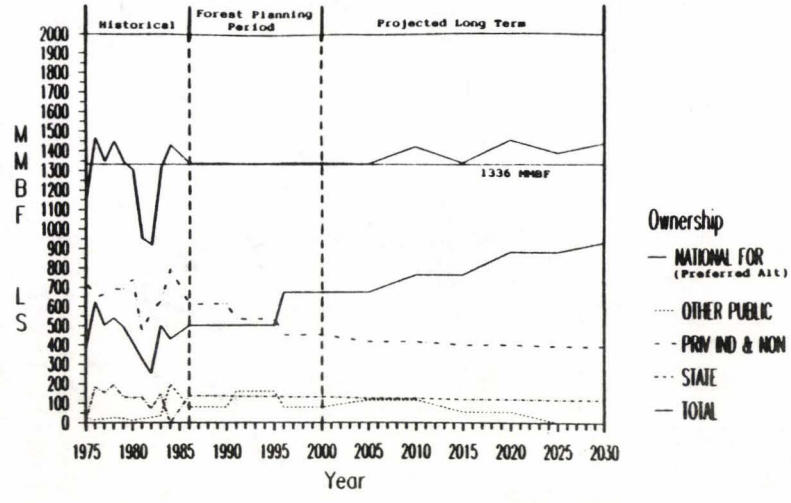
Harvest Volume

Scenario 11 for North Idaho



Harvest Volume

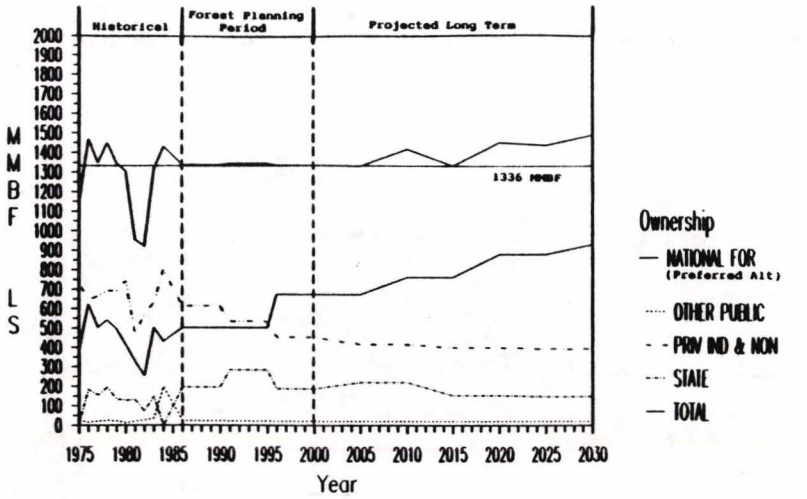
Scenario 11A for North Idaho



Harvest Volume

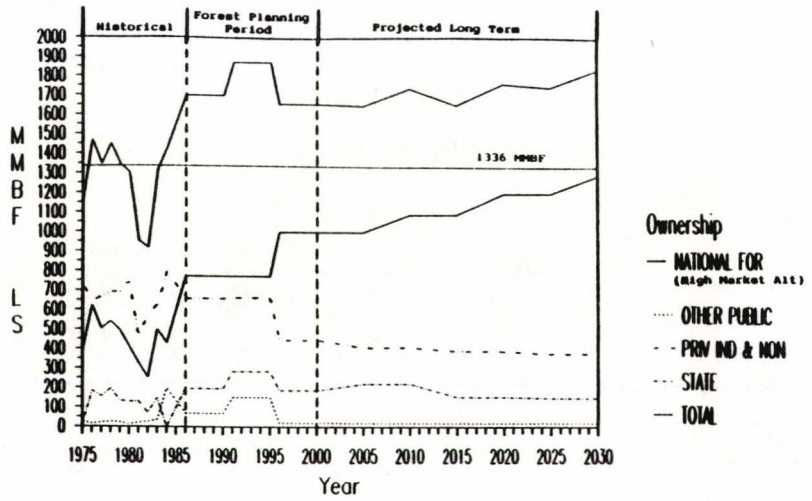
Scenario 11B for North Idaho

Figure 11. -- Summary of the Supply Scenarios Displayed in Detail for Northern Idaho



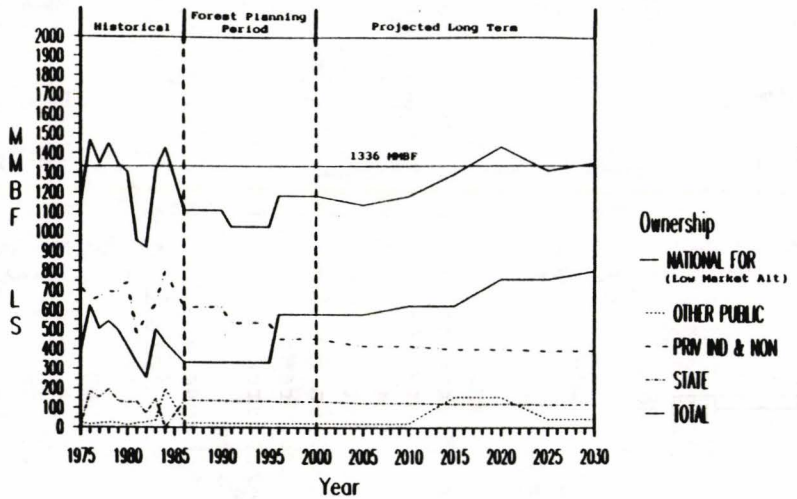
Harvest Volume

Scenario 11C for North Idaho



Harvest Volume

Scenario 99 for North Idaho



Harvest Volume

Scenario 00 for North Idaho

Figure 11. -- (Continued)

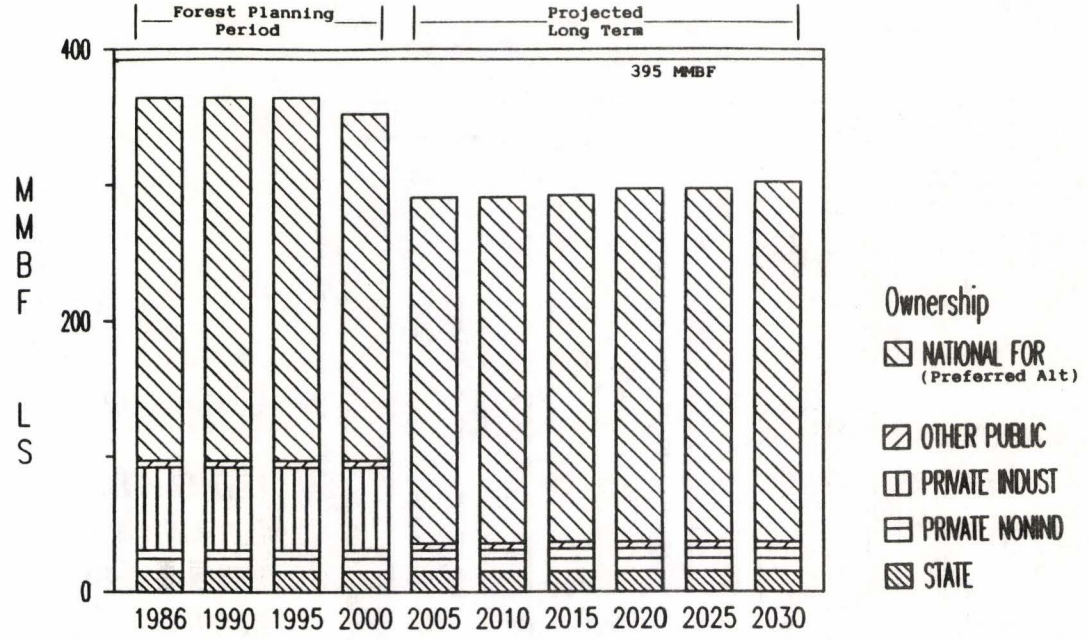


Figure 12. -- Projected Harvest by Ownership Class for Scenario 1 (Southern Idaho)

Figures 13 and 14 show the above information split into the two separate marketing zones for Southern Idaho. Figure 13 displays the projected harvests by ownership class for the Southwest marketing zone. Figure 14 displays the projected harvests by ownership class for the Southeast marketing zone. The percentages used to prorate the split between Southwest and Southeast Idaho were developed from Van Hooser and Green's (1985) publication on Idaho's State and private forest resource.

Again, because of the early liquidation of the projected inventories with private industrial ownerships, scenarios 11a through 11c were developed on the assumption harvests from the private industrial ownerships would decrease 25 percent by the year 1990 and 50 percent from the past 10-year average by the year 2000. As in the Northern Idaho analysis, this level of private industrial harvest provides the basis for the second scenario discussed in detail.

Scenario 11 is a combination of the National Forest System lands preferred alternative, the reduction described above for the private industrial ownership class, and the past 10-year average harvest level for non-industrial private, other public, and State ownership classes. In this scenario the total harvest falls short of the 395 million board feet median for Southern Idaho through 1990 by 45 million board feet. This shortfall (the differnce between the median figure of 395 MMBF and the projected total of scenario 11) increases to 55 million board feet for the period 1990 through 1995 and then increases to 74 million board feet for the period 1996 through 2000. Inventory levels for private industrial lands are adequate to sustain this reduced level of harvest

through the year 2030. Figure 15 displays the projected harvests by ownership class for scenario 11.

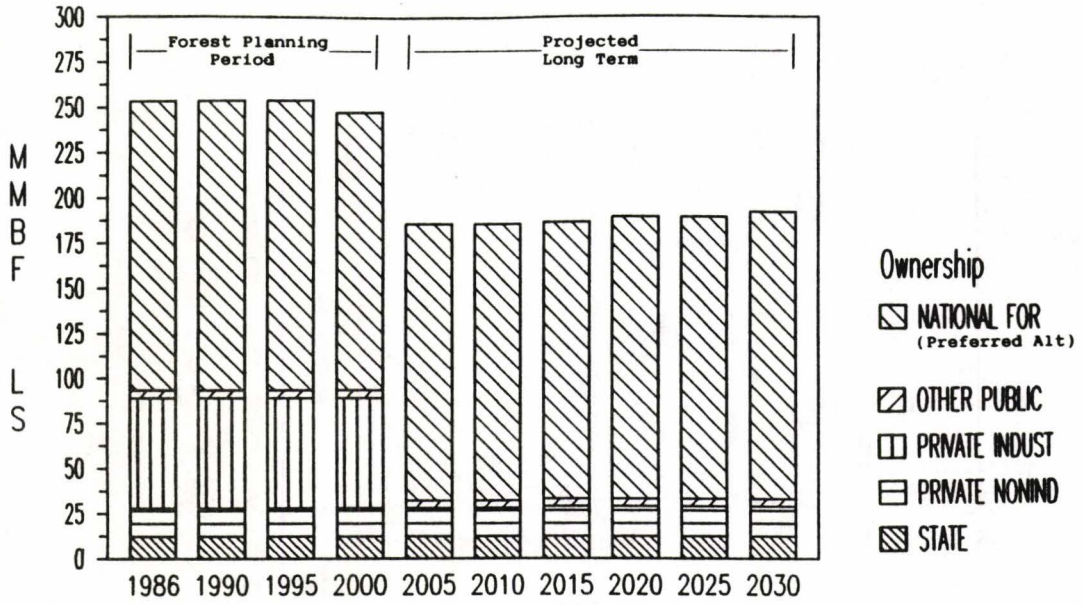


Figure 13. -- Projected Harvest by Ownership Class for Scenario 1 (Southwest Marketing Zone)

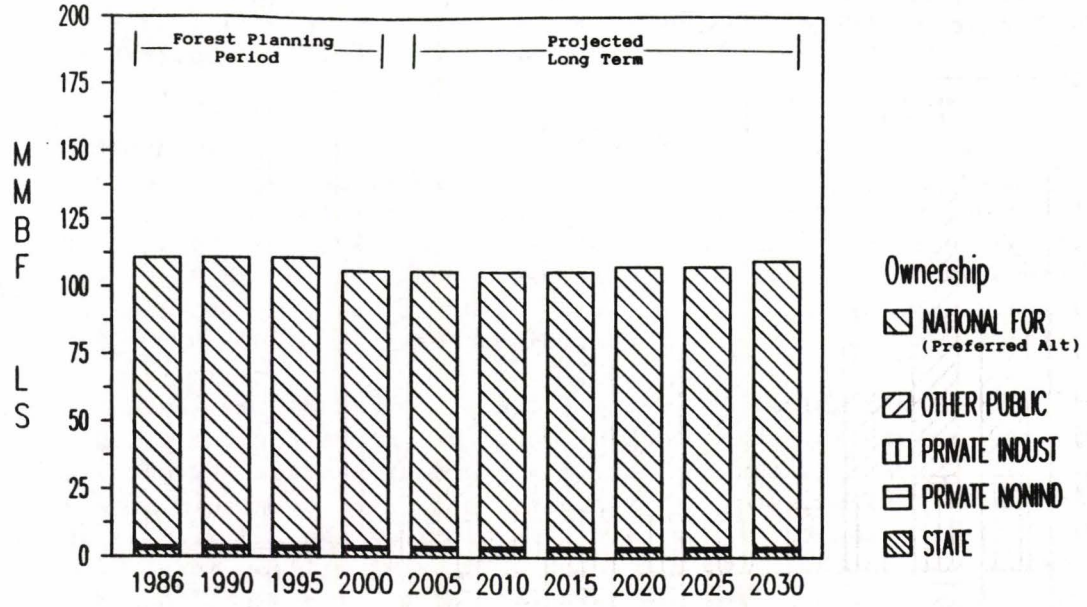


Figure 14. -- Projected Harvest by Ownership Class for Scenario 1 (Southeast Marketing Zone)

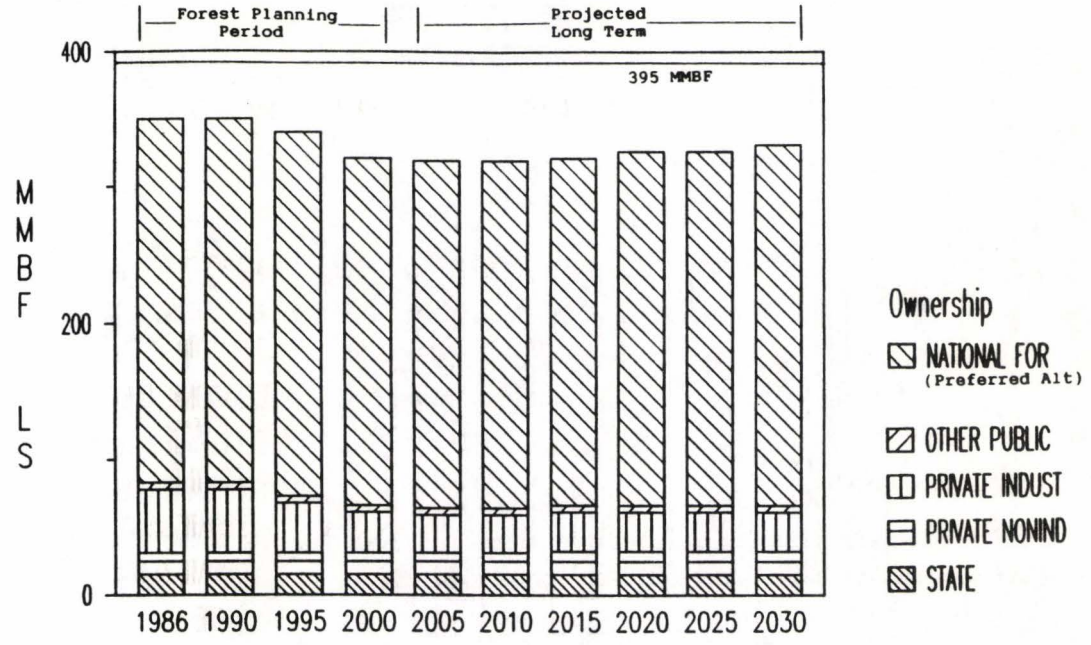


Figure 15. -- Projected Harvest by Ownership Class for Scenario 11 (Southern Idaho)

Figures 16 and 17 show the above information split into the two separate marketing zones for Southern Idaho. Figure 16 displays the projected harvests by ownership class for the Southwest marketing zone. Figure 17 displays the projected harvests by ownership class for the Southeast marketing zone.

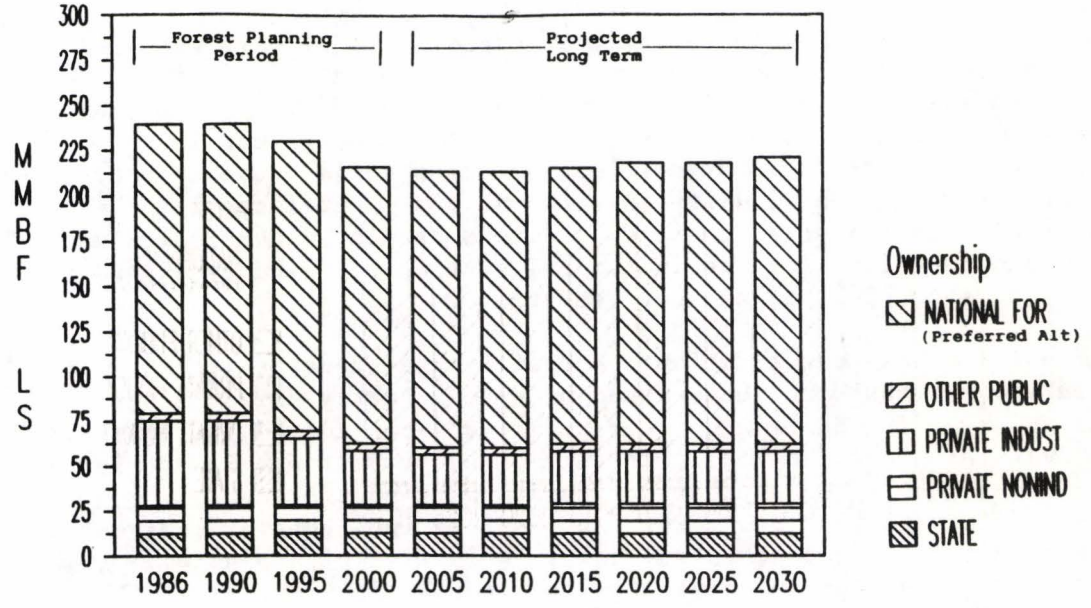


Figure 16. -- Projected Harvest by Ownership Class for Scenario 11 (Southwest Marketing Zone)

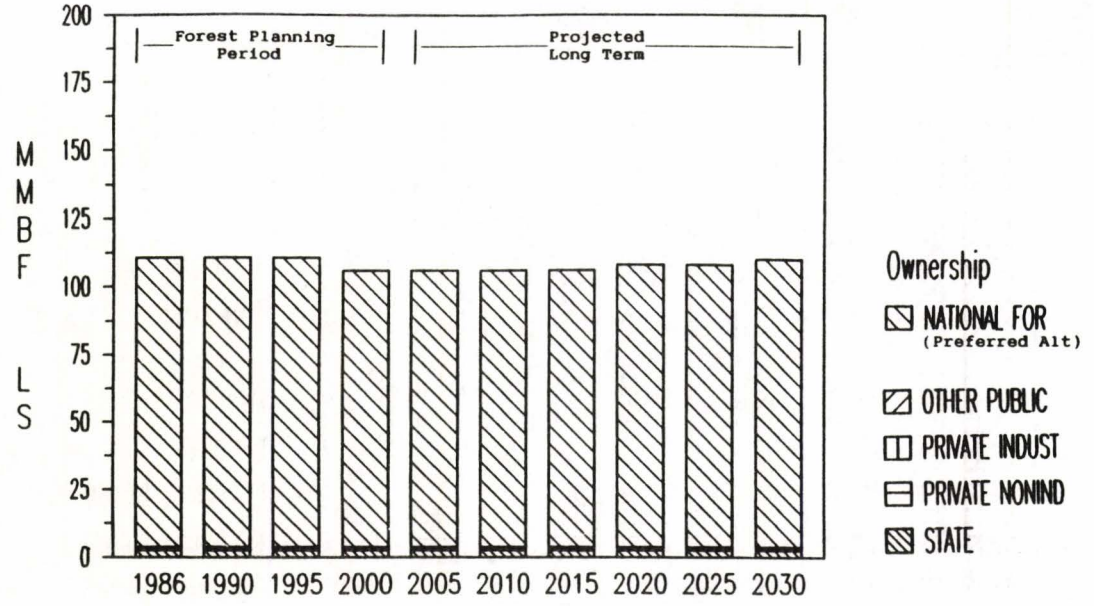


Figure 17. -- Projected Harvest by Ownership Class for Scenario 11 (Southeast Marketing Zone)

As indicated in the discussion for scenario 1, harvest levels at the past 10-year average provide for a continued accumulation of inventory for private non-industrial, other public, and State ownerships. This again leads to the question -- given the decrease in harvest projected in scenario 11 and the surplus of inventory for other ownerships, could the short-falls for scenario 11 be made up by increasing harvests on non-industrial private, other public, and State ownerships?

To answer this question, three variants of scenario 11 were examined. Again, due to different modeling and analysis limitations it is possible to examine the ability of ownership classes to make up the supply short-fall only one ownership class at a time -- not in combination. In reality, harvest level changes would probably occur simultaneously on several different ownerships. Therefore, for the purposes of this analysis, these projections should be considered as the maximum potential for the individual ownerships being evaluated to make up the short-fall in any one scenario.

Scenario 11a combined the National Forest System lands preferred alternative harvest with the reduced private industry harvest, the 10-year average for State and other public and considered increases by non-industrial private owners. In this case, private non-industrial owners alone can increase their harvest to make up the supply short-fall through the year 2000. In the long run, however, harvests at the required level lead to an early liquidation of projected inventories in the Non-industrial private ownership class after the year 2010. Figure 18 displays the projected harvests by ownership class for scenario 11a.

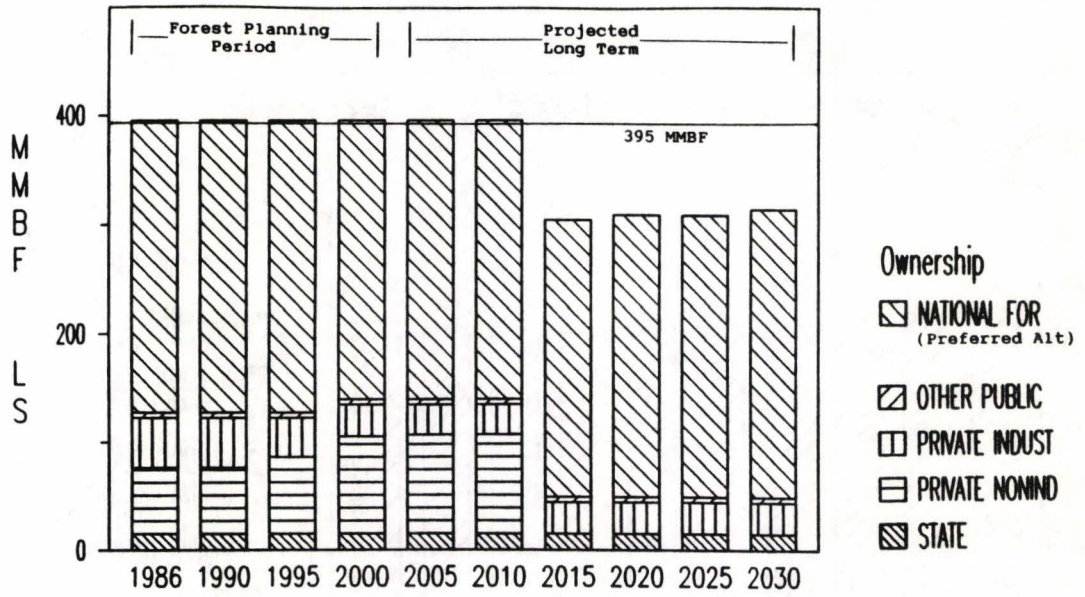


Figure 18. -- Projected Harvest by Ownership Class for Scenario 11a (Southern Idaho)

Figures 19 and 20 show the above information split into the two separate marketing zones for Southern Idaho. Figure 19 displays the projected harvests by ownership class for the Southwest marketing zone. Figure 20 displays the projected harvests by ownership class for the Southeast marketing zone.

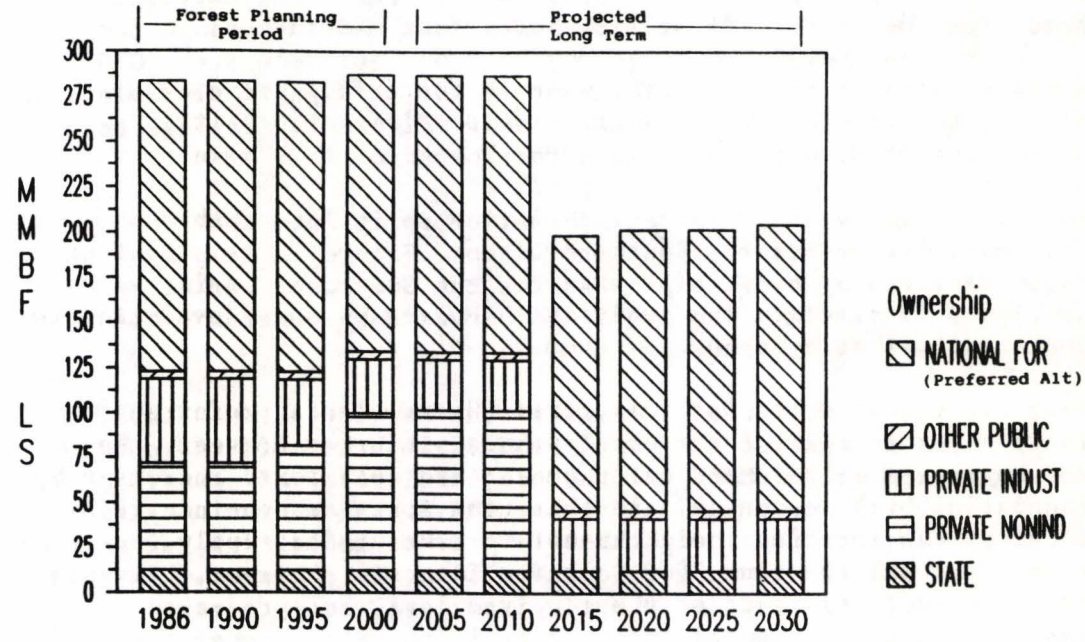


Figure 19. -- Projected Harvest by Ownership Class for Scenario 11a (Southwest Marketing Zone)

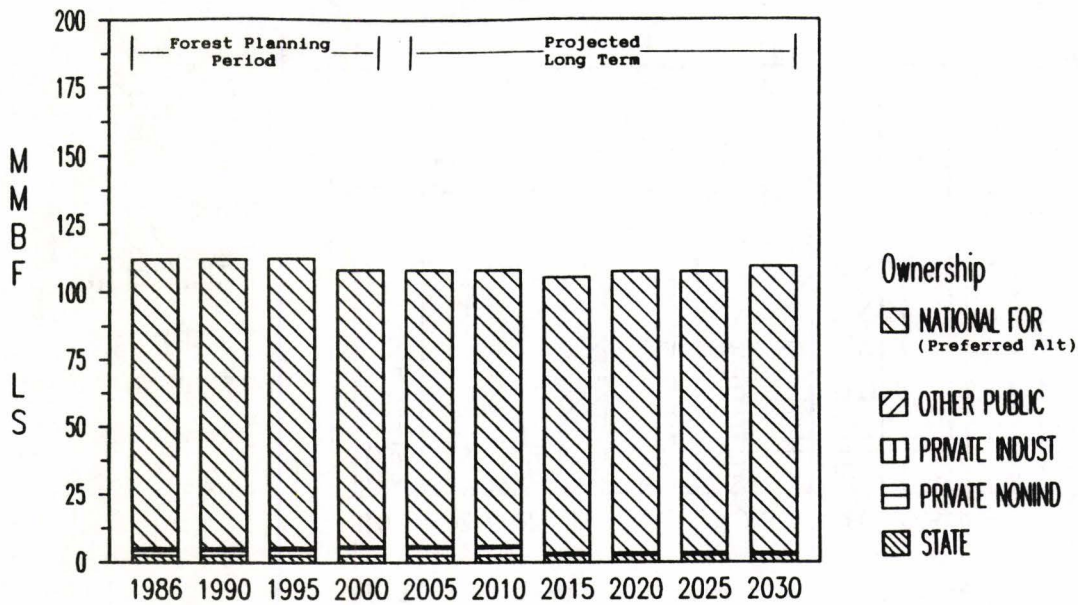


Figure 20. -- Projected Harvest by Ownership Class for Scenario 11a (Southeast Marketing Zone)

The next ownership class examined for its ability to increase its harvest to make up the supply short-fall is the other public class in Scenario 11b. The inventory for this individual ownership class is not adequate to fill in supply short-falls so that the total harvest for Southern Idaho meets the 395 million board foot median through the year 2000. In the long term, the inventory will be depleted after 2010. Given the relatively small total inventory for this particular class to begin with, this result was not unexpected. Figure 21 displays the projected harvest by ownership class for scenario 11b.

Figures 22 and 23 show the above information split into the two separate marketing zones for Southern Idaho. Figure 22 displays the projected harvests by ownership class for the Southwest marketing zone. Figure 23 displays the projected harvests by ownership class for the Southeast marketing zone.

The last variant of Scenario 11 examined the ability of the State ownership class to make up the supply shortfall (the difference between the median figure of 395 MMBF and the projected total of scenario 11). This scenario (11c) again indicates that the State ownership class alone can offset immediate reductions in private industrial harvests so that the total median volume for Southern Idaho is achieved. In the long run, however, harvests at the required level lead to early liquidations in the projected inventories in the State ownership class after the year 2020. Figure 24 displays the projected harvests by ownership class for scenario 11c.

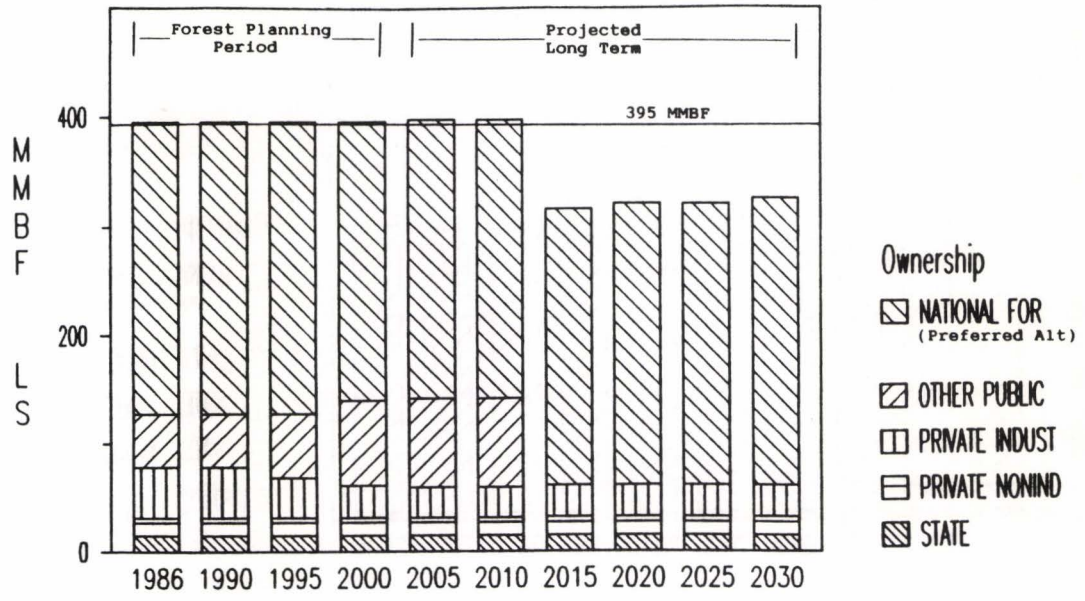


Figure 21. -- Projected Harvest by Ownership Class for Scenario 11b (Southern Idaho)

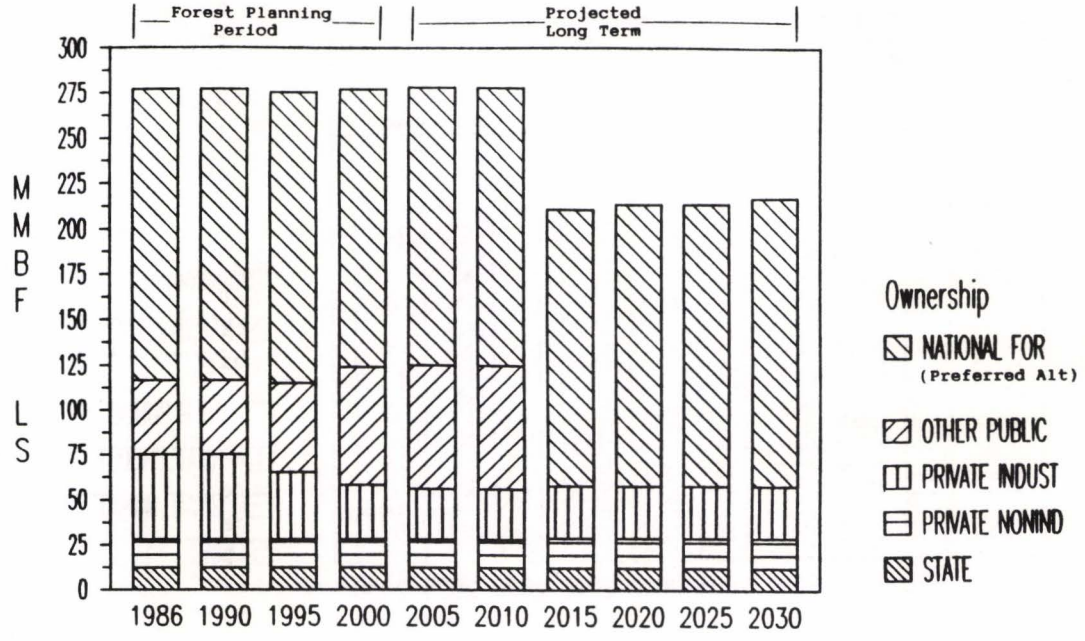


Figure 22. -- Projected Harvest by Ownership Class for Scenario 11b (Southwest Marketing Zone)

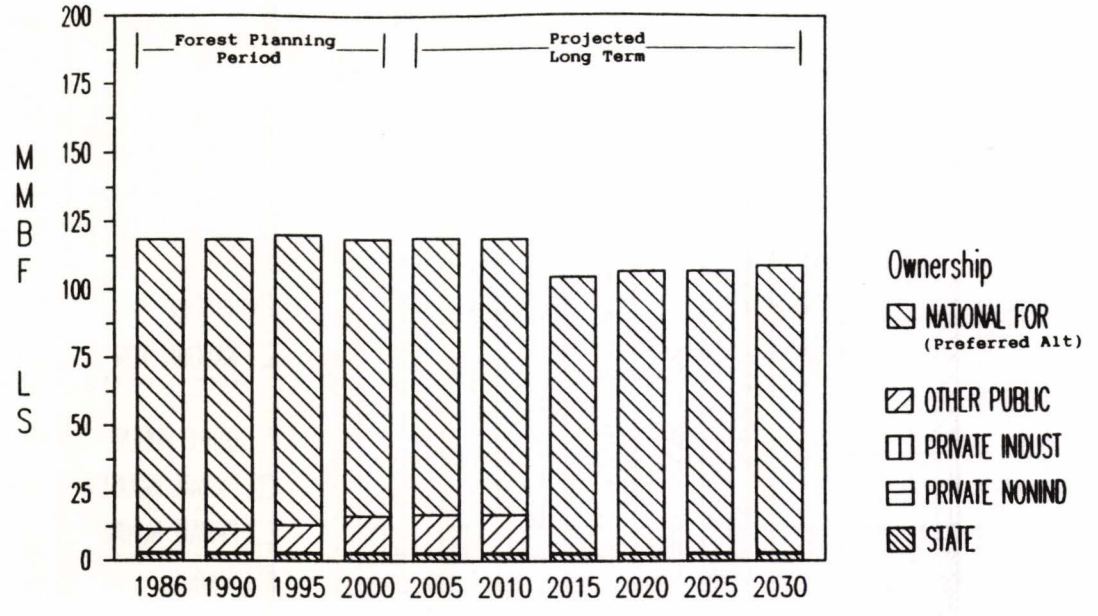


Figure 23. -- Projected Harvest by Ownership Class for Scenario 11b (Southeast Marketing Zone)

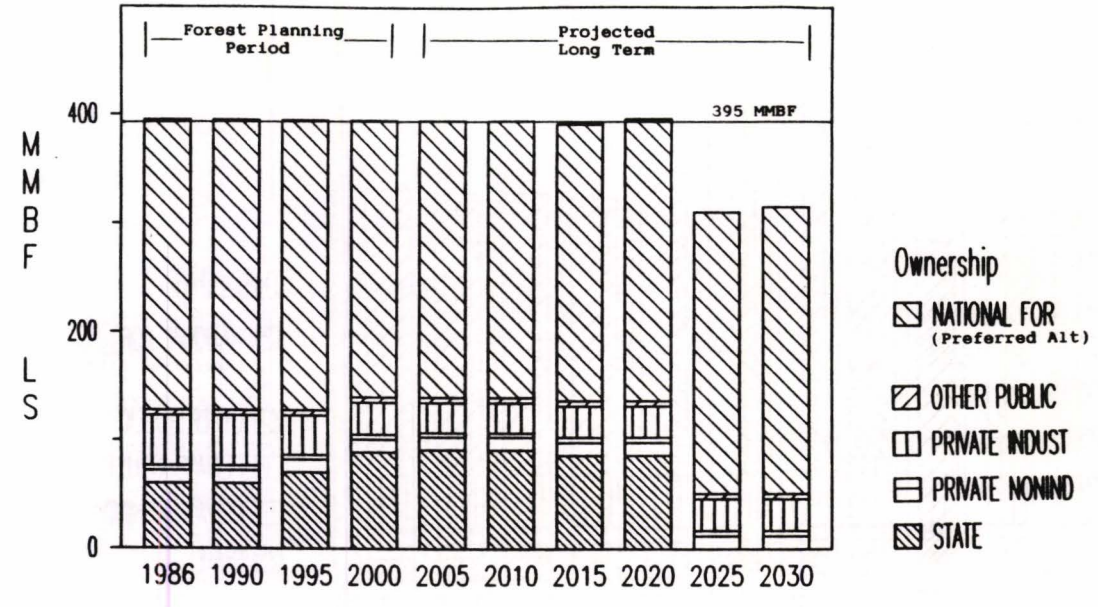


Figure 24. -- Projected Harvest by Ownership Class for Scenario 11c (Southern Idaho)

Figures 25 and 26 show the above information split into the two separate marketing zones for Southern Idaho. Figure 25 displays the projected harvests by ownership class for the Southwest marketing zone. Figure 26 displays the projected harvests by ownership class for the Southeast marketing zone.

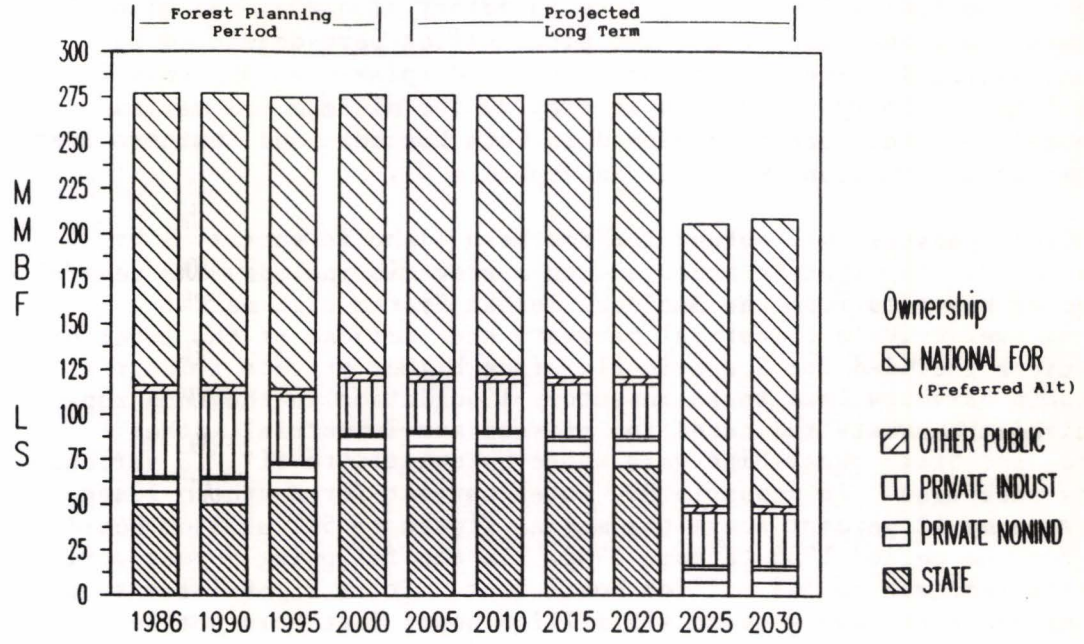


Figure 25. -- Projected Harvest by Ownership Class for Scenario 11c (Southwest Marketing Zone)

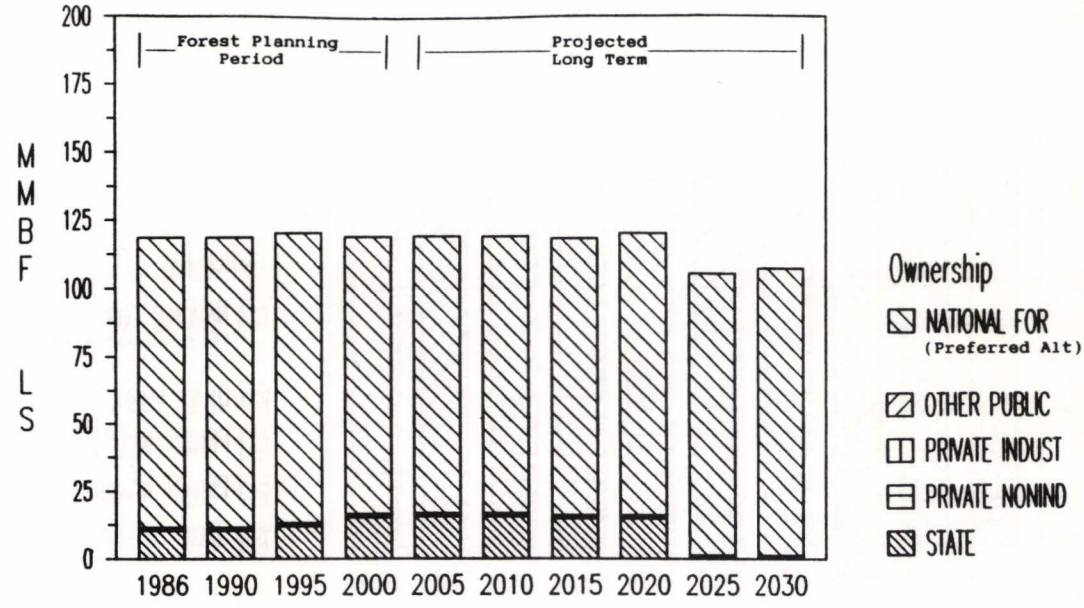


Figure 26. -- Projected Harvest by Ownership Class for Scenario 11c (Southeast Marketing Zone)

The remaining two scenarios considered in detail examined the maximum harvest that could be sustained from an inventory stand point, and the minimum harvest resulting from the scenarios considered. The only restriction in the TRAS runs considered in these alternatives is that there was no indication of long-term inventory problems. As with the Northern Idaho analysis, these two alternatives were developed by mixing several different TRAS runs results displayed in appendix C. Again, there primary purpose is to display the minimum and maximum harvest levels that can be achieved in both Northern and Southern Idaho (using the information available in appendix C).

The highest sustainable output for Southern Idaho is portrayed by Scenario 99. As might be expected, this scenario includes the several projected harvests from the National Forest System high market alternative. Private Industrial harvests are included at the level of reductions included for Scenario 11, since higher private industrial ownership harvests lead to an inventory liquidation in the long run. The highest harvests indicated for private non-industrial, other public, and State ownerships were those calculated to fill in various supply shortages. In scenario 99, total harvest for Southern Idaho increases by 42 percent above the median figure to 561 million board feet for the period 1986 through 1990. In the following 5-year period harvests increase to 569 million board feet. It is significant to note that harvests at levels above 475 million board feet have not be recorded in Southern Idaho in the entire historical period analyzed (1969 through 1984). Figure 27 displays the projected harvests by ownership for scenario 99.

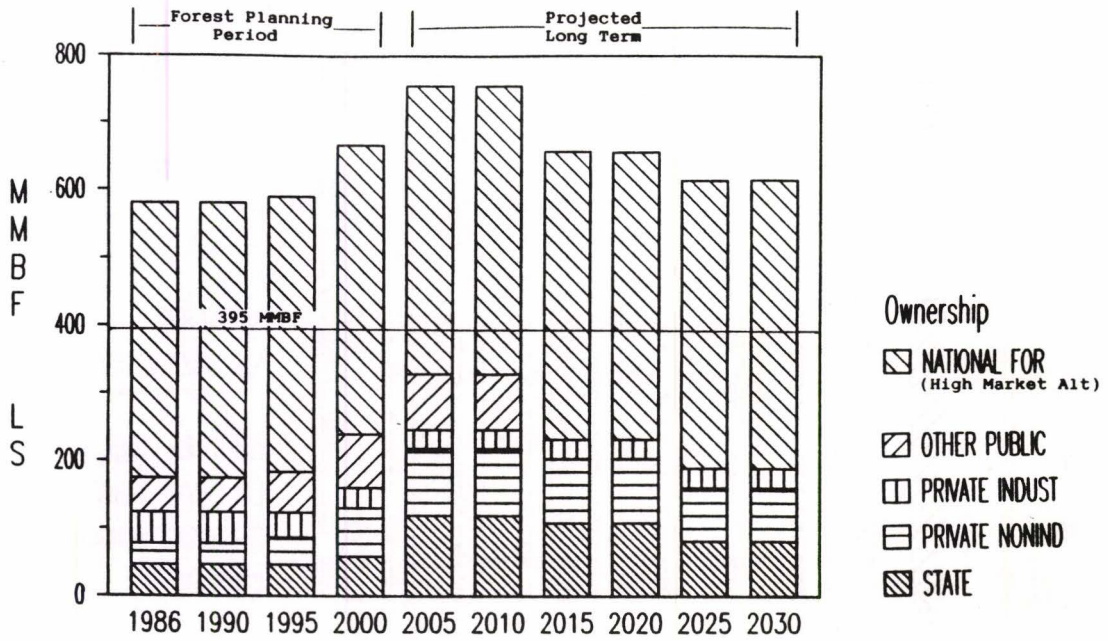


Figure 27. -- Projected Harvest by Ownership Class for Scenario 99 (Southern Idaho)

Figures 28 and 29 show the above information split into the two separate marketing zones for Southern Idaho. Figure 28 displays the projected harvests by ownership class for the Southwest marketing zone. Figure 29 displays the projected harvests by ownership class for the Southeast marketing zone.

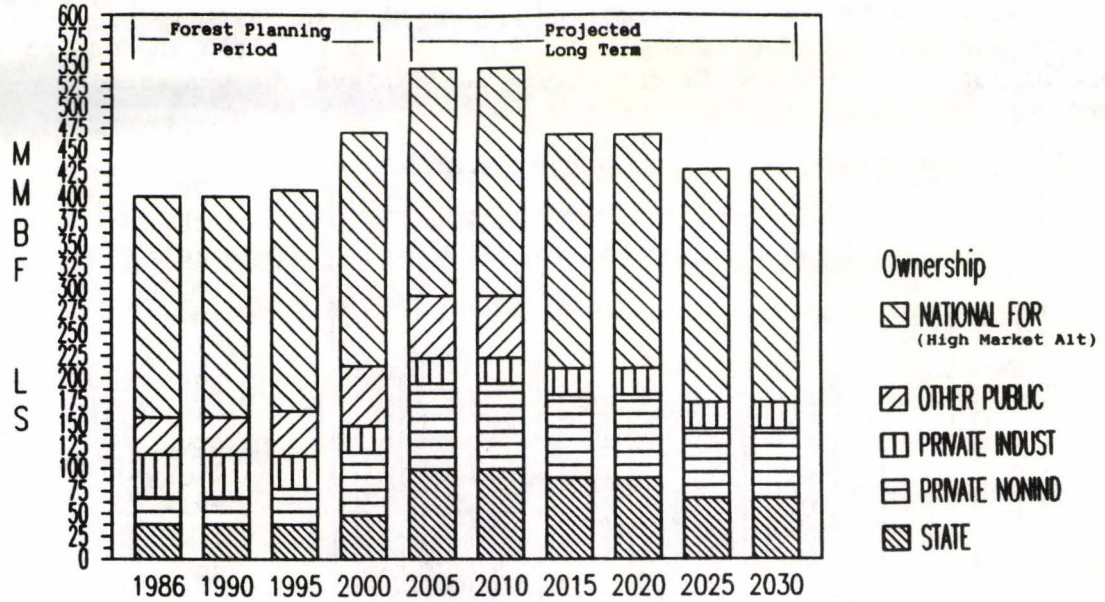


Figure 28. -- Projected Harvest by Ownership Class for Scenario 99 (Southwest Marketing Zone)

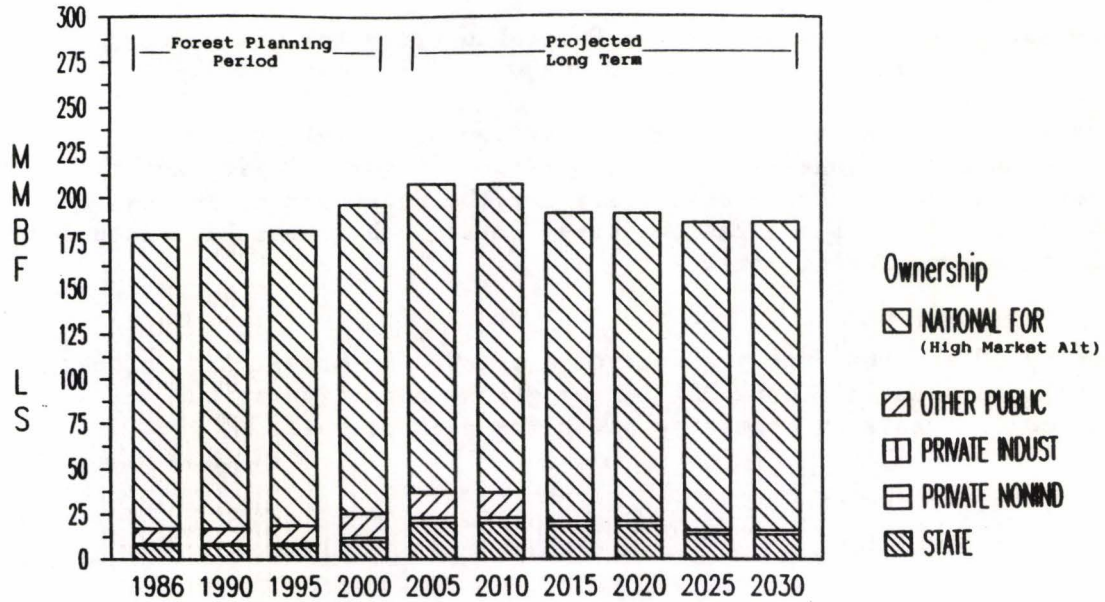


Figure 29. -- Projected Harvest by Ownership Class for Scenario 99 (Southeast Marketing Zone)

At the other extreme, scenario 00 was defined to produce the lowest total harvest (again the one constraint is that there would be no exhaustion of inventory in either the long run or short run). The National Forest System lands harvest was developed from the low market alternative. Private industrial harvest was the same as the level used in Scenario 99 - the reduced level. In scenario 00 the total harvest for Southern Idaho is 225 million board feet for the 1986 through 1990 period. In the period 1991 through 1995 total harvest falls to 215 million board feet - a decrease of more than 46 percent from the median figure of 395 million board feet. Figure 30 displays the projected harvest by ownership class for scenario 00.

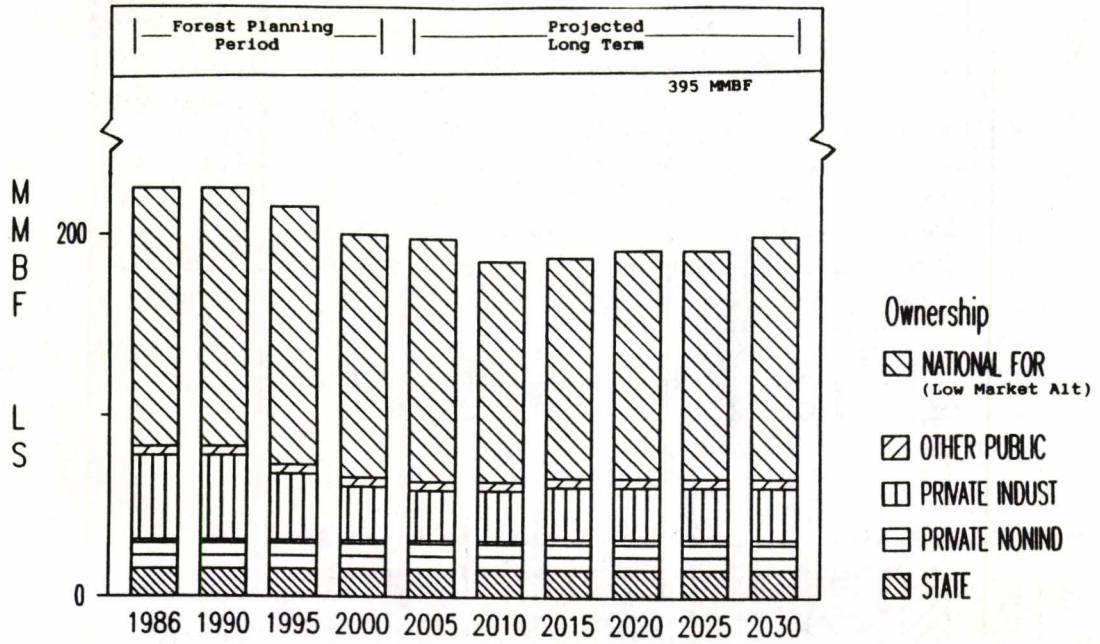


Figure 30. -- Projected Harvest by Ownership Class for Scenario 00 (Southern Idaho)

Figures 31 and 32 show the above information split into the two separate marketing zones for Southern Idaho. Figure 31 displays the projected harvests by ownership class for the Southwest marketing zone. Figure 32 displays the projected harvests by ownership class for the Southeast marketing zone.

A summary of all the supply scenarios displayed in detail for Southern Idaho can be seen in figure 33. These graphs also display the historical harvests by ownership class for each scenario.

IMPLICATIONS:

Some of the implications of the results found in this report are:

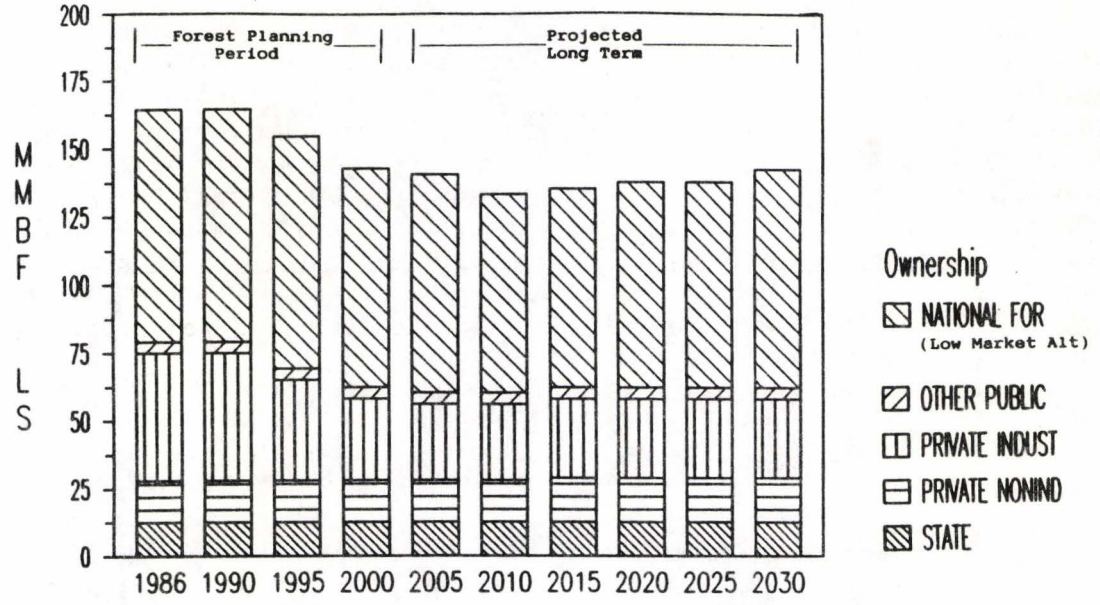


Figure 31. -- Projected Harvest by Ownership Class for Scenario 00 (Southwest Marketing Zone)

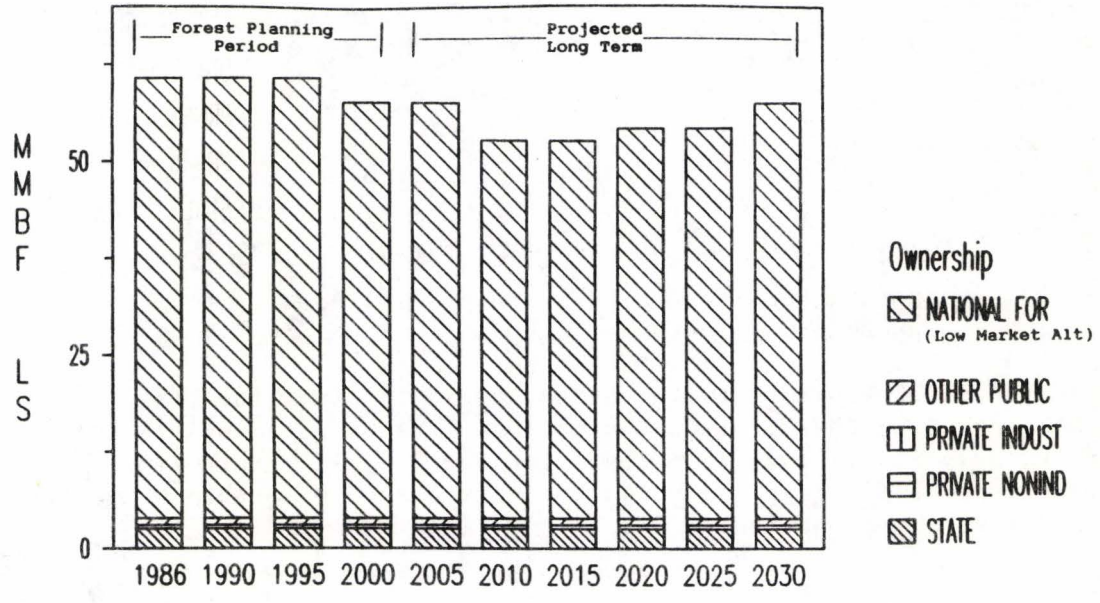
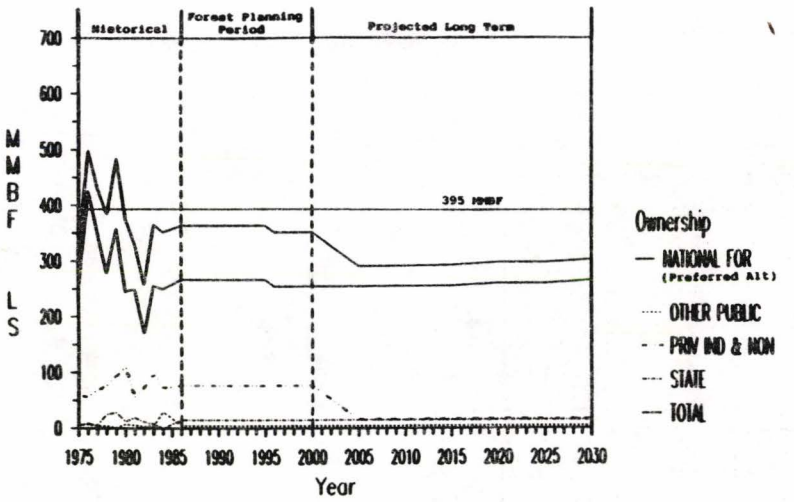


Figure 32. -- Projected Harvest by Ownership Class for Scenario 00 (Southeast Marketing Zone)

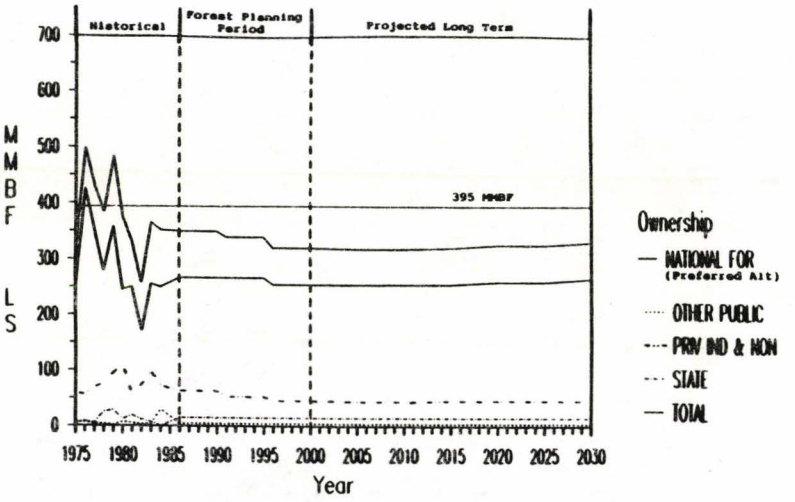
Employment and Income

The most common measures of economic impact are employment and income. Changes in the quantity of sawtimber harvested in a given region result



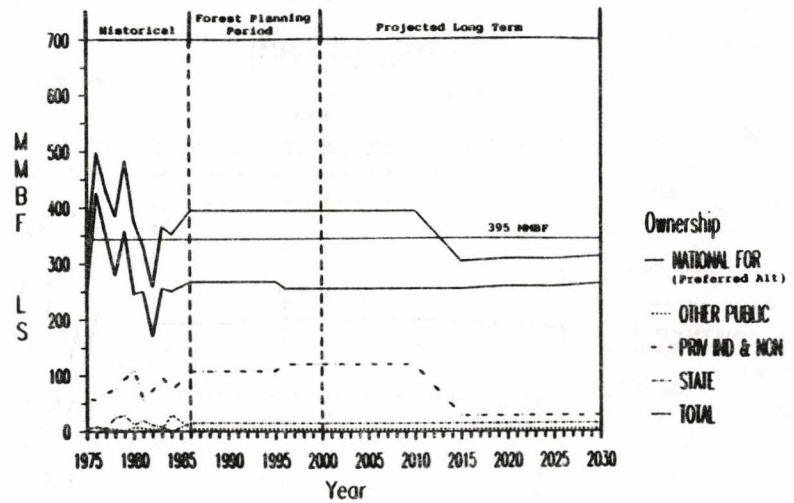
Harvest Volume

Scenario 01 for South Idaho



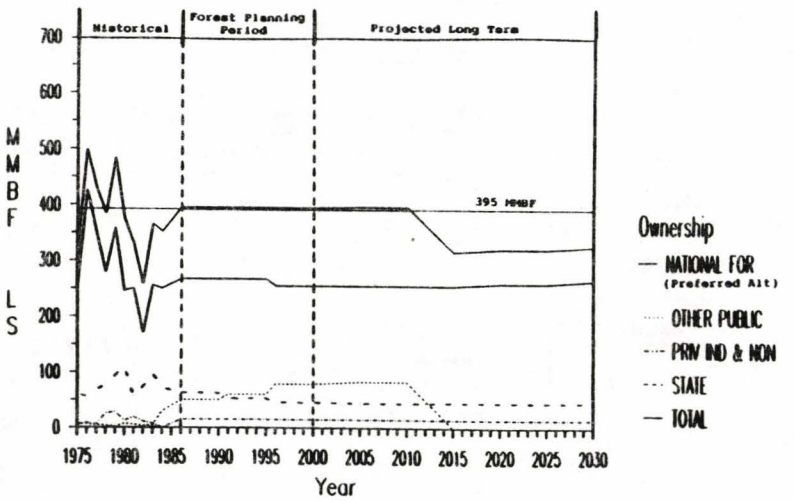
Harvest Volume

Scenario 11 for South Idaho



Harvest Volume

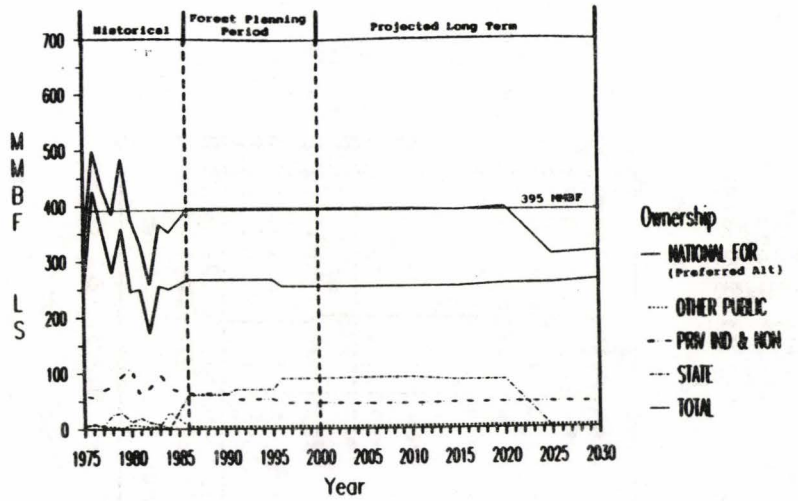
Scenario 11A for South Idaho



Harvest Volume

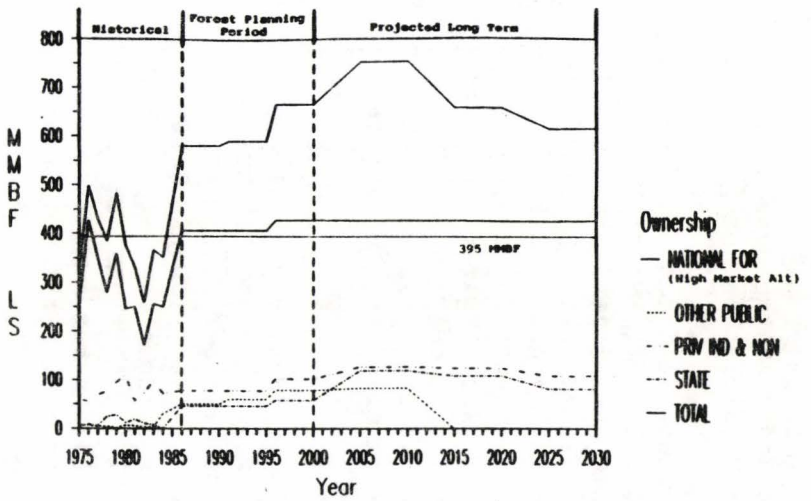
Scenario 11B for South Idaho

Figure 33. -- Summary of the Supply Scenarios Displayed in Detail for Southern Idaho



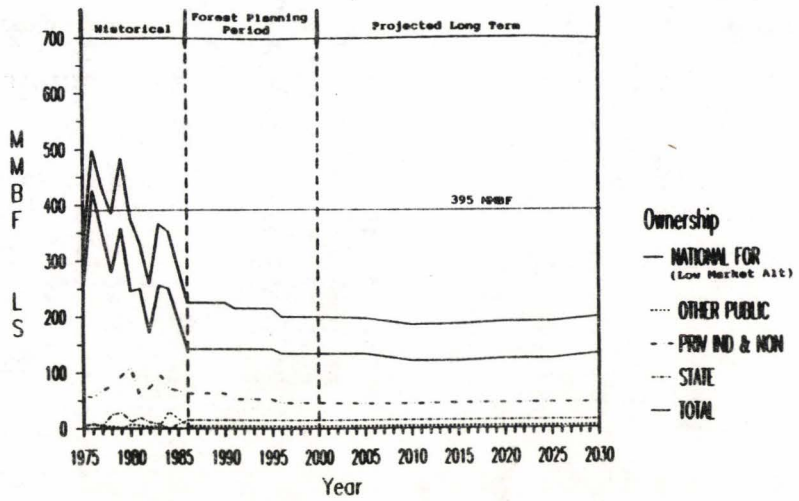
Harvest Volume

Scenario 11C for South Idaho



Harvest Volume

Scenario 99 for South Idaho



Harvest Volume

Scenario 00 for South Idaho

Figure 33. -- (Continued).

in direct changes in employment (and therefore income) in the logging and sawmill sectors. These direct changes as well as secondary employment in the remanufacturing of forest products result in employment and income impacts in the other sectors of the economy as households respend the income from the forest products industries.

Direct changes in the logging and sawmill sectors in Idaho are based on actual survey information from central Idaho (Robison, 1986). The forest products industry employment and income coefficients--expressed in jobs and income per million board feet harvested--were obtained from the USDA IMPLAN model (USDA, 1983). IMPLAN is a secondary data input-output model that can be used to measure impacts for any county or groups of counties in the United States. Separate multipliers were developed for Northern and Southern Idaho since the only pulp and paper mill in Idaho is in Northern Idaho at Lewiston. The impact of respending of the direct income was also determined using the IMPLAN model.

The information presented in this report is dependent on several key assumptions. First, is the assumption that processing and harvesting technology will not change with respect to the base period for the IMPLAN model. Another key assumption is that the relationship between changes in sawtimber harvest and employment and income is linear--that is, the changes in income and jobs are directly proportional to the changes in sawtimber harvest. Economic impacts for the scenarios described in detail are shown in table 7. Impacts for all scenarios are in appendix D.

To predict the implications of this analysis is a hazardous endeavor at best. However, a pairwise comparison of the numbers displayed in table 7 and in appendix D is more reasonable than a comparison of these projected numbers to the actual historical jobs and income numbers. Moreover, there are technical reasons to expect an overstatement of the IMPLAN projections.

Employment estimates were computed through the application of the IMPLAN model. In preparation for the modeling exercise, an amount of cross-hauling, on the part of loggers, was observed in all three sub-state areas (marketing zones). Cross-hauling is the export and import of the same commodity (logging services in this case). IMPLAN systematically overstates employment linkages when there is cross-hauling (See: Robison, 1986, Chapter 6).

When cross-hauling takes place, and the region is a net exporter of logging services, IMPLAN will overstate the region's logging-lumbermill trade by the amount of the region's imports. When cross-hauling takes place, and the region is a net importer of logger services, IMPLAN will overstate the region's logging-lumbermill trade by the amount of the region's exports. When cross-hauling takes place, and exports and imports of logging services are equal, IMPLAN will overstate the region's logging-lumbermill trade by the amount of the region's exports(imports).

Two points related to this logging trade overstatement are in order. First, the error that starts with logging is not all of the overstatement. Loggers purchase supplies from other regional industries, and these industries from still others, and so on. In as much as the logging link is erroneous, so is the sum of all these other supply links. Similarly, IMPLAN estimates so-called "induced" linkages -- that is, activity in linked consumers goods industries. To all the erroneous interindustry trade will be linked erroneous induced linkages.

A second point has to do with the overstatement as it is influenced by the geographic scope of the model area. The smaller the model area, the greater will be cross-hauling as a share of total area logging activity. In a broad and active timber region it is no doubt rare to find a single county that is not heavily linked, through logging, to other regional counties. In other words, it is rare to find counties that do not exhibit cross-hauling of logger services. However, as the model area enlarges, beyond that of a single county, exports and imports become internal to the model -- cross-hauling as a percent of total model logging activity declines. As a general rule, therefore, cross-hauling, and the attendent overstatement of input-output linkages by IMPLAN, is a greater problem the smaller is the model area.

Because the three sub-state regions (marketing zones) defined in this report are rather broad, cross-hauling as a percent of total logging activity can be expected to be relatively small. Accordingly, the attendant overstatement of employment linkages that would be great, in a smaller area model, might not be entirely unacceptable in these larger sub-state regions.

Payments to Counties

Each proposed harvest level on National Forest System lands results payments to counties as a result of the 25% fund. The effects of the harvest levels proposed in the Idaho National Forest plans on payments to counties was estimated for each of the Forest Service alternatives considered in this report. These estimates can be found in appendix E.

Northern Idaho

The analysis of Scenario 11 and variants indicates that in combination with the National Forest System lands preferred alternative and the immediate reductions in private industrial harvests, any one of the other three ownerships classes (non-industrial private, other Public and State) can increase harvests enough to achieve the 1,336 million board foot median. The State ownerships inventory is large enough to accomplish this increase in supply without any long run problems. This indicates that from a biological inventory perspective, reductions in harvest by private industrial owners could be offset by increases in harvest from other ownerships.

Table 7. -- Economic Impacts for the Supply Scenarios Described in Detail (Jobs and Income by Sector).

Northern Idaho:

Scenario	Year			
Sector	1986	1990	1995	2000
Scenario:00				
Industrial(# jobs)	18708	18708	17306	19993
Wood Prod.(# jobs)	9077	9077	8397	9701
Industrial(MM$ income)	734	734	679	785
Wood Prod.(MM$ income)	443	443	410	473
Scenario: 1				
Industrial(# jobs)	23035	23035	23491	23542
Wood Prod.(# jobs)	11177	11177	11398	11423
Industrial(MM$ income)	904	904	922	924
Wood Prod.(MM$ income)	545	545	556	557
Scenario:11				
Industrial(# jobs)	21598	21598	20195	21615
Wood Prod.(# jobs)	10480	10480	9799	10488
Industrial(MM$ income)	848	848	793	848
Wood Prod.(MM$ income)	511	511	478	512
Scenario:11a				
Industrial(# jobs)	22612	22612	22595	22714
Wood Prod.(# jobs)	10972	10972	10963	11021
Industrial(MM$ income)	888	888	887	892
Wood Prod.(MM$ income)	535	535	535	538
Scenario:11b				
Industrial(# jobs)	22578	22578	22528	22578
Wood Prod.(# jobs)	10955	10955	10931	10955
Industrial(MM$ income)	886	886	884	886
Wood Prod.(MM$ income)	534	534	533	534
Scenario:11c				
Industrial(# jobs)	22578	22578	22697	22545
Wood Prod.(# jobs)	10955	10955	11013	10939
Industrial(MM$ income)	886	886	891	885
Wood Prod.(MM$ income)	534	534	537	534
Scenario:99				
Industrial(# jobs)	28713	28713	31637	28003
Wood Prod.(# jobs)	13932	13932	15350	13587
Industrial(MM$ income)	1127	1127	1242	1099
Wood Prod.(MM$ income)	680	680	749	663

Table 7. -- (Continued)

Southern Idaho:

Scenario	Year			
Sector	1986	1990	1995	2000
Scenario:00				
Industrial(# jobs)	3330	3330	3182	2960
Wood Prod.(# jobs)	1620	1620	1548	1440
Industrial(MM$ income)	125	125	119	111
Wood Prod.(MM$ income)	70	70	67	62
Scenario: 1				
Industrial(# jobs)	5387	5387	5387	5210
Wood Prod.(# jobs)	2621	2621	2621	2534
Industrial(MM$ income)	202	202	202	196
Wood Prod.(MM$ income)	113	113	113	109
Scenario:11				
Industrial(# jobs)	5180	5180	5032	4751
Wood Prod.(# jobs)	2520	2520	2448	2311
Industrial(MM$ income)	194	194	189	178
Wood Prod.(MM$ income)	109	109	105	100
Scenario:11a				
Industrial(# jobs)	5846	5846	5846	5846
Wood Prod.(# jobs)	2844	2844	2844	2844
Industrial(MM$ income)	219	219	219	219
Wood Prod.(MM$ income)	122	122	122	122
Scenario:11b				
Industrial(# jobs)	5846	5846	5846	5846
Wood Prod.(# jobs)	2844	2844	2844	2844
Industrial(MM$ income)	219	219	219	219
Wood Prod.(MM$ income)	122	122	122	122
Scenario:11c				
Industrial(# jobs)	5846	5846	5846	5846
Wood Prod.(# jobs)	2844	2844	2844	2844
Industrial(MM$ income)	219	219	219	219
Wood Prod.(MM$ income)	122	122	122	122
Scenario:99				
Industrial(# jobs)	8584	8584	8717	9857
Wood Prod.(# jobs)	4176	4176	4241	4795
Industrial(MM$ income)	322	322	327	370
Wood Prod.(MM$ income)	180	180	183	206

In addition to the scenarios described in detail above , all of the scenarios proposed in this report were analyzed. Numerical displays for each scenario considered (a total of 29 individual scenarios for Northern Idaho) are included in appendix C. Harvest totals for Northern Idaho for other scenarios fall within the range of those analyzed in detail with the exception of some combinations that lead to inventory depletion for various ownership classes.

Findings for Northern Idaho:

To place the following specific findings in their proper perspective, it may be useful to first compare the planned timber harvest levels under the preferred alternatives for the northern Idaho National Forests (Clearwater, Nez Perce, and Panhandle) with the historic annual harvest for 1975 to 1984. The preferred alternatives indicate that the planned annual harvest gradually increases from 502 million board feet in the first decade to 909 million board feet in the fifth decade. The planned annual harvest of 502 million board feet in the first decade represents a 12 percent increase over the average annual harvest of 448 million board feet that occurred from 1975 to 1984.

The specific findings are:

--The average annual harvest (1975-1984) of 415 million feet from private industrial lands cannot be maintained beyond the next 10 years due to a shortage of sawtimber inventory volume on these lands.

--If the average annual harvest (1975-1984) of 446 million board feet from private nonindustrial, other public, and State lands were maintained through the year 2000, and if the historic annual harvest for private industrial lands were maintained through 1995 followed by a maximum decline of 50 percent from 1996 to 2000, the total historic annual harvest of 1.336 billion board feet could be maintained or increased through the year 2000. This is due to increasing harvest levels under the preferred alternatives for the National Forests.

However, if sawtimber inventory volume from the private industrial lands were depleted by the year 2010, the total harvest level would drop below the 1.336 billion board feet figure beginning in the year 2000. This reduction could be offset by increased harvests from other ownerships in conjunction with the harvest levels under the preferred alternatives or by higher harvest levels under different alternatives for the National Forests.

--If the harvest level from private industrial lands were to decline immediately (25 percent by 1990 and 50 percent by 2000) due to long term inventory shortages, the level of harvest under the preferred alternatives for the National Forests would not be sufficient to offset the decrease. However, any one of the other

three ownership classes (private nonindustrial, other public, and State) alone could increase its harvest level to maintain the historic annual harvest of 1.336 billion board feet through the year 2000. However, only the State ownership class has enough inventory volume to provide adequate increases in harvest levels without long-term inventory depletion. The National Forests also have the potential to increase harvest levels above those in the preferred alternatives to offset the decrease without long-term inventory depletion.

The historic annual harvest of 1.336 billion board feet can be maintained beyond the year 2000 by a continuation of increased harvest levels from other ownerships in conjunction with the harvest levels under the preferred alternatives or by higher harvest levels under different alternatives for the National Forests.

Southern Idaho

The analysis of Scenario 11 and variants indicates that in combination with the National Forest System lands preferred alternative and the immediate reductions in private industrial harvests, any one of the other three ownerships classes (non-industrial private, other Public and State), can increase harvests enough to achieve the 395 million board foot median. The State ownership inventory by itself is large enough to accomplish this increase in supply with the least amount of any long run inventory problems. This again indicates that from a biological inventory perspective, reductions in harvest by private industrial ownerships could be offset by increases in harvest from other ownerships.

In addition to the scenarios described in detail above, all of the scenarios proposed in this report were analyzed. Numerical displays for each scenario considered (a total of 29 individual scenarios for Southern Idaho) are included in appendix C. Harvest totals for Southern Idaho for other scenarios fall within the range of those analyzed in detail with the exception of some combinations that lead to inventory depletion for various ownership classes.

Findings for Southern Idaho:

To place the following specific findings in their proper perspective, it may be useful to first compare the planned timber harvest levels under the preferred alternatives for the southern Idaho National Forests (Boise, Caribou, Challis, Payette, Salmon, Sawtooth, and Targhee) with historic levels for 1975 to 1984. The preferred alternatives indicate that the planned annual harvest of 267 million board feet in the first decade drops to 255 million board feet in the second decade (due to a decline in harvest volume, a departure, on the Targhee National Forest) before gradually increasing to 265 million

board feet in the fifth decade. The planned annual harvest of 267 million board feet in the first decade represents a 5 percent decrease from the average annual harvest of 281 million board feet that occurred from 1975 to 1984.

The specific findings are:

--The average annual harvest (1975-1984) of 61 million board feet from private industrial lands cannot be maintained beyond the next 15 years due to a shortage of sawtimber inventory volume on these lands.

--If the average annual harvest (1975-1984) of 97 million board feet from private industrial, private nonindustrial, other public, and State lands were maintained through the year 2000, total timber harvest would decline from the historic annual harvest of 395 million board feet to 364 million board feet from 1986 to 1995 and to 352 million board feet from 1996 to 2000. This is due to decreased harvest levels under the preferred alternatives for the National Forests. As modeled in the report, approximately 682 jobs in the wood products and related sectors would be lost along with an annual loss of $27 million of income in these sectors during the next 10 years. In addition, there would be an annual loss of $244,931 in payments to counties in this period.

The foregoing reductions could be offset by any one of the other three ownership classes (private nonindustrial, other public, and State) to maintain the historic annual harvest of 395 million board through the year 2000. However, the sawtimber inventory volumes from these ownership classes would be depleted shortly after the year 2010. Collectively, the harvest levels from these ownerships could be increased to offset the reductions from the National Forests without resulting in long-term inventory depletions. In addition, there is a potential to increase the harvest levels above those indicated by the preferred alternatives for the National Forests, and this could more than offset the indicated reductions.

--If the harvest level from private industrial lands were to decline immediately (25 percent by 1990 and 50 percent by 2000) due to long-term inventory shortages, increased harvest levels from either the private nonindustrial or State lands alone could offset the decrease in order to maintain the historic annual harvest of 395 million board feet. However, the sawtimber inventory volumes would be depleted on either of these ownerships from 2010 to 2020. The indicated decreases from the National Forest and private industrial lands could be offset by increased harvests from the private nonindustrial, other public, and State lands collectively without resulting in sawtimber inventory volume shortages beyond 2000. The National Forests also have the potential to increase harvests above those in the preferred alternatives to alone offset the decrease without long-term inventory depletion.

Cubic Feet vs. Board Feet Volumes

Although many of the scenarios analyzed in this report depleted the inventories on individual ownership classes, it should be realized that the volumes that were attempted to be achieved in the TRAS model were in board feet volumes. Although the board feet volumes were essentially liquidated in these scenarios, there still remained in many instances a substantial amount of cubic feet volume in the final inventory. Had the analysis been done on cubic feet volumes, the inventories would not have depleted as early in the analysis period as they did.

Species Mix

In using the TRAS model for this analysis, species mix was not of critical concern in the analysis. The harvest volumes which were projected by the model were indifferent to the type of species being cut over time. This could have some impact on our initial assumption that there will be no significant change in processing and harvesting technology and efficiency over the projection period. In the State of Idaho, wood products plants are tooled for the particular species being cut currently in their general mill area. As time progresses those species types would probably decline and have to be replaced by others in order to meet the total harvest volumes being projected. This would probably require some change in timber mill processing and efficiency in the long term. This should be taken into consideration when interpreting the findings of this report.

Capability of Individual Ownership Classes to Increase Harvests

Although most ownership classes have the ability to increase harvest levels from a biological standpoint, as indicated by the findings, other factors such as budgets, work force levels, and the goals and objectives of the particular ownership class (or segment of a class) must be taken into account when interpreting the findings of this report.

The State ownership class has the biological potential for large increases in harvest levels in both northern and southern Idaho. The State currently harvests approximately 185 million board feet annually off its lands. One objective of the Idaho State Department of Lands is to increase annual harvests to approximately 200 million board feet, a figure close to what the Department estimates is the State's sustained yield. This increase in harvest levels would require additional work force and funding. Additional funding would likely be invested more in northern Idaho than in southern Idaho, because financially attractive investments are more frequently found in the northern region. Without an increase in funding, any large increase in annual harvests would not be possible (Jones, 1986).

The USDI Bureau of Land Management (BLM), which represents 65 percent of the historic harvest level of the other public ownership class, displays the potential for large biological increases in harvest levels in northern Idaho and slight increases in southern Idaho. Increased timber harvest levels on lands administered by the BLM may not be consistent with its overall management goals and objectives. Although not analyzed in this report, potential conflicts may exist between increases in timber harvests and other resource objectives. As with the State lands, there is also the problem of obtaining increased funding and work force levels. Preliminary BLM studies indicate that a 27 to 30 percent increase in harvest levels could be achieved in northern Idaho with investments in intensive management, but this would require additional funding and a two-fold increase in staffing. In southern Idaho, a more extensive type of management would be undertaken (such as increases in old growth harvesting in the Salmon area), which would probably not require large increases in funding (Rice, 1986).

The amount of private nonindustrial lands that may be considered operable for timber production was also taken into account in the report. However, the availability of timber from private nonindustrial lands is difficult to determine because of changing attitudes, rapid landownership turnover, and indefinite landowner long-term plans. It may be reasonable to expect that the harvest levels from these lands will remain relatively constant in the forseeable future unless some dramatic changes take place.

In light of the capability of the private nonindustrial, other public, and State lands, the National Forest lands could be viewed as the most opportune source of additional timber to offset projected declines in harvest levels from private industrial lands, particularly in southern Idaho. The National Forest System lands have the biological potential for the largest increase in harvest levels of all the ownership classes within the State of Idaho. However, increased timber harvest levels on lands administered by the Forest Service need to be considered in light of overall management goals and objectives. Futhermore, substantial increases in funding and work force levels would be required to increase timber harvest levels significantly. Although not analyzed in this report, potential conflicts may exist between increases in timber harvests and other resource objectives. In addition, Forest planning analyses have indicated that higher timber harvest levels on some National Forests may decrease the economic efficiency of the timber program.

Demand

Demand was not considered to be a paramount factor in this report. Although not considered in detail, some background information on the general demand pressures in the Idaho timber industry may be helpful. Haynes and Adams (1985) developed several timber demand simulations for the Rocky Mountains (of which Idaho is a part). Their general demand

prediction for the purposes of the 1983 assessment supplement for the Resources Planning Act (RPA) was:

Softwood timber harvest: (Rocky Mountains)	Year	Demand
	1976	770 MMCF
	1990	920 MMCF
	2000	890 MMCF
	2010	950 MMCF
	2020	1000 MMCF
	2030	1020 MMCF

In addition to that selected for the 1983 assessment supplement, Haynes and Adams also protrayed various other simulations of demand. For example, a low housing starts simulation resulted in:

Softwood timber harvest: (Rocky Mountains)	Year	Demand
	1976	770 MMCF
	1990	750 MMCF
	2000	770 MMCF
	2010	820 MMCF
	2020	880 MMCF
	2030	930 MMCF

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APPENDIX A

NORTHERN IDAHO TIMBER HARVEST[1]

		CALENDAR YEARS									
		1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
USDA Forest Service[2]	MBF	388,112	623,828	503,593	541,001	494,859	413,524	327,514	254,305	502,763	428,409
	% of Total	31.5	42.4	37.4	37.3	36.8	31.7	34.4	27.6	38.2	30.3
Bureau of Indian Affairs[3]	MBF	4,225	3,952	4,063	11,416	8,938	4,486	8,646	10,900	19,171	17,470
	% of Total	0.3	0.3	0.3	0.8	0.7	0.3	0.9	1.2	1.5	1.2
Bureau of Land Mgmt.[4]	MBF	20,716	13,482	17,445	13,300	13,900	8,500	13,000	15,000	18,000	12,000
	% of Total	1.7	0.9	1.3	0.9	1.0	0.7	1.4	1.6	1.4	.8
State of Idaho[5]	MBF	86,598	184,598	155,025	193,399	134,471	129,088	130,810	71,099	146,986	169,254
	% of Total	7.1	12.5	11.5	13.3	10.0	9.9	13.7	7.7	11.2	12.0
All private Idaho[6]	MBF	731,698	644,643	655,818	691,867	691,462	747,430	672,054	568,882	628,645	798,065
	Total	59.4	43.9	49.5	47.7	51.5	57.4	49.6	61.9	47.7	55.7
Total harvest	MBF	1,231,349	1,470,282	1,345,944	1,450,983	1,343,630	1,303,028	952,024	920,186	1,315,565	1,416,198

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[1] North Idaho - 10 counties north of the Salmon River.

[2] USDA Forest Service, Missoula, Montana.

[3] Bureau of Indian Affairs, Portland, Oregon.

[4] Bureau of Land Management, Boise, Idaho.

[5] Idaho Department of Lands, Coeur d'Alene, Idaho.

[6] Idaho Department of Lands, Coeur d'Alene, Idaho.

SOUTHERN IDAHO TIMBER HARVEST[7]

		CALENDAR YEARS									
		1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
USDA Forest Service[8]	MBF	289,398	385,703	322,900	300,592	338,650	192,445	236,489	195,943	288,301	259,344
	% of Total	80.1	84.3	80.3	74.1	73.1	59.8	74.7	69.2	72.4	71.9
Bureau of Indian Affairs[9]	MBF	0	0	60	0	0	0	0	0	0	0
	% of Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Land Mgmt.[10]	MBF	6,395	6,700	3,500	4,246	1,807	7,385	5,900	2,652	3,771	1,324
	% of Total	1.8	1.5	0.9	1.1	0.4	2.3	1.9	0.9	0.9	.4
State of Idaho[11]	MBF	6,548	9,202	6,428	25,339	28,233	11,691	18,665	11,195	7,988	28,288
	% of Total	1.8	2.0	1.6	6.2	6.1	3.6	5.9	4.0	2.0	7.8
All private Idaho[12]	MBF	59,123	56,042	69,015	75,708	94,581	110,167	55,618	73,340	98,324	71,692
	Total	16.3	12.2	17.2	18.6	20.4	34.3	17.5	25.9	24.7	19.9
Total harvest	MBF	361,374	457,647	401,903	405,885	463,271	321,688	316,672	283,130	398,384	360,648

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[7] South Idaho - 34 counties south of the Salmon River.

[8] USDA Forest Service, Ogden, Utah.

[9] Bureau of Indian Affairs, Portland, Oregon.

[10] Bureau of Land Management, Boise, Idaho.

[11] Idaho Department of Lands, Coeur d'Alene, Idaho.

[12] Idaho Department of Lands, Coeur d'Alene, Idaho.

IDAHO TIMBER HARVEST SUMMARY

		CALENDAR YEARS									
		1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
USDA Forest Service[13]	MBF	677,510	1,009,531	826,493	841,593	833,509	605,969	564,003	450,248	791,064	687,753
	% of Total	42.5	52.4	47.3	45.3	46.1	37.3	44.4	37.4	46.2	38.8
Bureau of Indian Affairs[14]	MBF	4,225	3,925	4,123	11,416	8,938	4,486	8,646	10,900	19,171	17,470
	% of Total	0.3	0.2	0.3	0.6	0.5	0.3	0.7	0.9	1.1	1.0
Bureau of Land Mgmt.[15]	MBF	27,111	20,182	20,945	17,546	15,707	15,885	18,900	17,652	21,771	13,324
	% of Total	1.7	1.1	1.2	0.9	0.9	1.0	1.5	1.5	1.3	.7
State of Idaho[16]	MBF	93,056	193,579	161,453	218,738	162,704	140,779	149,475	82,294	154,974	197,542
	% of Total	5.8	10.0	9.2	11.8	9.0	8.6	11.8	6.8	9.0	11.1
All private Idaho[17]	MBF	790,821	700,685	734,833	767,575	786,043	857,597	527,672	642,222	726,969	860,757
	Total	49.7	36.3	42.0	41.4	43.5	52.8	41.6	53.4	42.4	48.4
Total harvest	MBF	1,592,723	1,927,929	1,747,847	1,856,868	1,809,901	1,624,716	1,268,696	1,203,316	1,713,949	1,776,846

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[13] USDA Forest Service, Missoula, Montana and Ogden, Utah.

[14] Bureau of Indian Affairs, Portland, Oregon.

[15] Bureau of Land Management, Coeur d'Alene and Boise, Idaho.

[16] Idaho Department of Lands, Coeur d'Alene, Idaho.

[17] Idaho Department of Lands, Coeur d'Alene, Idaho.

APPENDIX B

SENSITIVITY ANALYSIS ON 70% FIGURE FOR OPERABLE NON-INDUSTRIAL PRIVATE LANDS

To date, no reliable studies on the availability of timber or other resources from non-industrial private forest land in Idaho have been made. Availability of timber from non-industrial private land is a very difficult question to pin down because of changing attitudes, rapid landownership turnover, and indefinite landowner long-term plans. Basically, these lands consist of:

-Owners who say they want to sell timber actually do so during natural disasters or economic downturns.

-Ownership frequently changes hands, particularly smaller tracts 10-30 acres every 5-10 years (one Idaho study indicates an average of 7 years).

-Owners who operate without long-term plans, and their land use plans (when they do exist), including the production of timber, are continually changing.

It is a fact that the non-industrial private lands in Idaho have contributed a substantial amount of timber in the past and are continuing to do so -- regardless of what landowners, in general, may say about their plans at some particular point in time. For these reasons, a sensitivity analysis was performed on the 70% figure used for determining the portion of operable land in the non-industrial private ownership class.

The analysis was performed on several supply scenarios whose objective was for non-industrial private lands to make up the gap, but resulted in a shortfall of volume to achieve the 10 year median volume for the State of Idaho. It was felt that a sensitivity analysis on these scenarios would provide the most informative results. Scenario 11a for North Idaho and scenario 11a for South Idaho were chosen for this sensitivity analysis.

Sensitivity runs were performed at a level of 60% operable lands for private non-industrial lands, and at a level of 80% operable lands for the private non-industrial lands for both North and South Idaho. The results of these runs and a comparison to the original 70% figure are displayed below.

North Idaho -- Harvest Volumes (in MMBF/year):

Percent Operable Lands	Year				
	1990	2000	2010	2020	2030
60%	341	312	279	*	*
70%	344	327	347	234	*
80%	345	335	373	302	217

* Inventory Depleted

North Idaho -- Inventory Volumes (in MMBF/year):

Percent Operable Lands	Year				
	1990	2000	2010	2020	2030
60%	4301	2649	852	*	*
70%	5509	4311	2924	944	*
80%	6719	5998	5176	3716	3183

* Inventory Depleted

South Idaho -- Harvest Volumes (in MMBF/year):

Percent Operable Lands	Year				
	1990	2000	2010	2020	2030
60%	61	89	83	*	*
70%	61	90	92	*	*
80%	61	91	95	9C	*

* Inventory Depleted

South Idaho -- Inventory Volumes (in MMBF/year):

Percent Operable Lands	Year				
	1990	2000	2010	2020	2030
60%	1290	923	316	*	*
70%	1564	1285	760	*	*
80%	1837	1647	1221	642	*

* Inventory Depleted

APPENDIX C

KEY TO ABBREVIATIONS USED IN TABLES

ST: STATE

NI: NORTHERN IDAHO

SI: SOUTHERN IDAHO

MMCF: MILLIONS OF CUBIC FEET

MMBF: MILLIONS OF BOARD FEET

PR: PREFERRED ALTERNATIVE

CD: CURRENT DIRECTION ALTERNATIVE

DP: DEPARTURE ALTERNATIVE

HB: HIGH MARKET ALTERNATIVE

LB: LOW MARKET ALTERNATIVE

NFH: NATIONAL FOREST HARVEST

OPH: OTHER PUBLIC HARVEST
(THIS ALSO INCLUDES THE STATE OWNERSHIP PROJECTIONS)

PIN: PRIVATE INDUSTRIAL/NONINDUSTRIAL HARVEST

PIH: PRIVATE INDUSTRIAL HARVEST

PNI: PRIVATE NONINDUSTRIAL HARVEST

ALTN: NATIONAL FOREST PLAN ALTERNATIVE

LIP: LARGE INDUSTRY PORTION OF THE NATIONAL FOREST HARVEST

SBA: SMALL BUSINESS SET ASIDE PORTION OF NATIONAL FOREST HARVEST

Note: In the harvest volume tables, the figures for the year 1986 were extrapolated from the 1990 figures in the TRAS model.

HISTORICAL PRODUCTION & HARVEST FOR YEARS 1969 TO 1985 (MMBF)

LEGEND

NFH - National Forest Harvest
OPH - Other Public Harvest
STH - State Harvest
PINH - Private Industrial/Nonindustrial Harvest

ST	ABRV	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
NI	NFH	726	546	525	485	471	483	388	624	504	541	495	414	328	254	503	432	441
	OPH	23	17	20	20	14	28	25	17	22	25	23	13	22	26	37	29	0
	STH	83	127	158	131	146	158	9	184	155	193	134	129	131	71	147	169	0
	PINH	513	520	561	610	553	625	732	645	666	692	692	747	472	569	629	798	0
TOTAL MMBF		1345	1210	1264	1246	1184	1294	1154	1470	1347	1451	1344	1303	953	920	1316	1428	441
SI	NFH	356	339	292	365	353	348	254	427	351	279	359	246	250	171	256	250	303
	OPH	8	16	5	5	0	2	6	7	4	4	2	7	6	3	4	1	0
	STH	21	11	12	17	24	18	6	9	6	25	28	12	19	11	8	28	0
	PINH	35	46	46	44	90	62	59	56	69	76	95	110	56	73	98	72	0
TOTAL MMBF		420	412	355	431	467	430	325	499	430	384	484	375	331	258	366	351	303

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
PNI - Private Nonindustrial Harvest
OPH - Other Public Harvest
STH - State Harvest
NFH - National Forest Harvest

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
00	LB	NI	NFH	332	332	332	576	576	621	621	762	762	803
	LB		OPH	23	23	22	22	21	21	156	156	44	44
	LB		STH	138	138	135	132	125	125	120	120	117	117
	LB		PIH	330	330	253	191	191	191	163	163	162	162
	LB		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1107	1107	1024	1183	1161	1206	1298	1439	1316	1357
	LB	SI	NFH	142	142	142	134	134	122	122	126	126	134
	LB		OPH	5	5	5	5	5	5	5	5	5	5
	LB		STH	15	15	15	15	15	15	15	15	15	15
	LB		PIH	47	47	37	30	28	28	29	29	29	29
	LB		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				225	225	215	200	198	186	188	192	192	200
STATEWIDE TOTAL				1332	1332	1239	1383	1359	1392	1486	1631	1508	1557
01	PR	NI	NFH	502	502	502	672	672	760	760	878	878	928
	PR		OPH	24	24	23	22	22	22	21	21	22	22
	PR		STH	138	138	135	132	125	125	120	120	117	117
	PR		PIH	415	415	448	305	206	206	0	0	0	0
	PR		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1363	1363	1390	1393	1273	1361	1139	1257	1248	1298
	PR	SI	NFH	267	267	267	255	255	255	255	260	260	265
	PR		OPH	5	5	5	5	5	5	5	5	5	5
	PR		STH	15	15	15	15	15	15	15	15	15	15
	PR		PIH	61	61	61	61	0	0	0	0	0	0
	PR		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				364	364	364	352	291	291	292	297	297	302

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
PNI - Private Nonindustrial Harvest
OPH - Other Public Harvest
STH - State Harvest
NFH - National Forest Harvest

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
STATEWIDE TOTAL				1727	1727	1754	1745	1564	1652	1431	1554	1545	1600
02	CD	NI	NFH	515	515	515	808	808	845	845	975	975	1044
	CD		OPH	24	24	23	22	22	22	21	21	22	22
	CD		STH	138	138	135	132	125	125	120	120	117	117
	CD		PIH	415	415	448	305	206	206	0	0	0	0
	CD		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1376	1376	1403	1529	1409	1446	1224	1354	1345	1414
	CD	SI	NFH	297	297	297	273	273	249	249	250	250	256
	CD		OPH	5	5	5	5	5	5	5	5	5	5
	CD		STH	15	15	15	15	15	15	15	15	15	15
	CD		PIH	61	61	61	61	0	0	0	0	0	0
	CD		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				394	394	394	370	309	285	286	287	287	293
STATEWIDE TOTAL				1770	1770	1797	1899	1718	1731	1510	1641	1632	1707
03	HB	NI	NFH	774	774	774	1000	1000	1090	1090	1199	1199	1290
	HB		OPH	24	24	23	22	22	22	21	21	22	22
	HB		STH	138	138	135	132	125	125	120	120	117	117
	HB		PIH	415	415	448	305	206	206	0	0	0	0
	HB		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1635	1635	1662	1721	1601	1691	1469	1578	1569	1660
	HB	SI	NFH	406	406	406	427	426	426	426	425	425	426
	HB		OPH	5	5	5	5	5	5	5	5	5	5
	HB		STH	15	15	15	15	15	15	15	15	15	15

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
PNI - Private Nonindustrial Harvest
OPH - Other Public Harvest
STH - State Harvest
NFH - National Forest Harvest

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	HB		PIH	61	61	61	61	0	0	0	0	0	0
	HB		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				503	503	503	524	462	462	463	462	462	463
STATEWIDE TOTAL				2138	2138	2165	2245	2063	2153	1932	2040	2031	2123
04	LB	NI	NFH	332	332	332	576	576	621	621	762	762	803
	LB		OPH	24	24	23	22	22	22	21	21	22	22
	LB		STH	138	138	135	132	125	125	120	120	117	117
	LB		PIH	415	415	448	305	206	206	0	0	0	0
	LB		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1193	1193	1220	1297	1177	1222	1000	1141	1132	1173
	LB	SI	NFH	142	142	142	134	134	122	122	126	126	134
	LB		OPH	5	5	5	5	5	5	5	5	5	5
	LB		STH	15	15	15	15	15	15	15	15	15	15
	LB		PIH	61	61	61	61	0	0	0	0	0	0
	LB		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				239	239	239	231	170	158	159	163	163	171
STATEWIDE TOTAL				1432	1432	1459	1528	1347	1380	1159	1304	1295	1344
05	DP	NI	NFH	487	487	487	686	686	774	774	906	906	1600
	DP		OPH	24	24	23	22	22	22	21	21	22	22
	DP		STH	138	138	135	132	125	125	120	120	117	117
	DP		PIH	415	415	448	305	206	206	0	0	0	0
	DP		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1348	1348	1375	1407	1287	1375	1153	1285	1276	1970

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
PNI - Private Nonindustrial Harvest
OPH - Other Public Harvest
STH - State Harvest
NFH - National Forest Harvest

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	DP	SI	NFH	267	267	267	255	255	255	255	260	260	265
	DP		OPH	5	5	5	5	5	5	5	5	5	5
	DP		STH	15	15	15	15	15	15	15	15	15	15
	DP		PIH	61	61	61	61	0	0	0	0	0	0
	DP		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				364	364	364	352	291	291	292	297	297	302
STATEWIDE TOTAL				1712	1712	1739	1759	1578	1666	1445	1582	1573	2272
06	PR	NI	NFH	502	502	502	672	672	760	760	878	878	928
	PR		OPH	24	24	23	22	22	22	21	21	22	22
	PR		STH	138	138	135	132	125	125	120	120	117	117
	PR		PIH	387	387	373	316	261	261	147	147	0	0
	PR		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1335	1335	1315	1404	1328	1416	1286	1404	1248	1298
	PR	SI	NFH	267	267	267	255	255	255	255	260	260	265
	PR		OPH	5	5	5	5	5	5	5	5	5	5
	PR		STH	15	15	15	15	15	15	15	15	15	15
	PR		PIH	92	92	91	0	0	0	0	0	0	0
	PR		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				395	395	394	291	291	291	292	297	297	302
STATEWIDE TOTAL				1730	1730	1709	1695	1619	1707	1578	1701	1545	1600
07	CD	NI	NFH	515	515	515	808	808	845	845	975	975	1044
	CD		OPH	24	24	23	22	22	22	21	21	22	22
	CD		STH	138	138	135	132	125	125	120	120	117	117
	CD		PIH	415	415	448	305	206	206	0	0	0	0

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
PNI - Private Nonindustrial Harvest
OPH - Other Public Harvest
STH - State Harvest
NFH - National Forest Harvest

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	CD		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1376	1376	1403	1529	1409	1446	1224	1354	1345	1414
	CD	SI	NFH	297	297	297	273	273	249	249	250	250	256
	CD		OPH	5	5	5	5	5	5	5	5	5	5
	CD		STH	15	15	15	15	15	15	15	15	15	15
	CD		PIH	62	62	60	86	0	0	0	0	0	0
	CD		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				395	395	393	395	309	285	286	287	287	293
STATEWIDE TOTAL				1771	1771	1796	1924	1718	1731	1510	1641	1632	1707
08	HB	NI	NFH	774	774	774	1000	1000	1090	1090	1199	1199	1290
	HB		OPH	24	24	23	22	22	22	21	21	22	22
	HB		STH	138	138	135	132	125	125	120	120	117	117
	HB		PIH	415	415	448	305	206	206	0	0	0	0
	HB		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1635	1635	1662	1721	1601	1691	1469	1578	1569	1660
	HB	SI	NFH	406	406	406	427	426	426	426	425	425	426
	HB		OPH	5	5	5	5	5	5	5	5	5	5
	HB		STH	15	15	15	15	15	15	15	15	15	15
	HB		PIH	61	61	61	61	0	0	0	0	0	0
	HB		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				503	503	503	524	462	462	463	462	462	463
STATEWIDE TOTAL				2138	2138	2165	2245	2063	2153	1932	2040	2031	2123
09	LB	NI	NFH	332	332	332	576	576	621	621	762	762	803

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
PNI - Private Nonindustrial Harvest
OPH - Other Public Harvest
STH - State Harvest
NFH - National Forest Harvest

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	LB		OPH	24	24	23	22	22	22	21	21	22	22
	LB		STH	138	138	135	132	125	125	120	120	117	117
	LB		PIH	573	573	479	327	0	0	0	0	0	0
	LB		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1351	1351	1251	1319	971	1016	1000	1141	1132	1173
	LB	SI	NFH	142	142	142	134	134	122	122	126	126	134
	LB		OPH	5	5	5	5	5	5	5	5	5	5
	LB		STH	15	15	15	15	15	15	15	15	15	15
	LB		PIH	200	200	0	0	0	0	0	0	0	0
	LB		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				378	378	178	170	170	158	159	163	163	171
STATEWIDE TOTAL				1729	1729	1429	1489	1141	1174	1159	1304	1295	1344
10	DP	NI	NFH	487	487	487	686	686	774	774	906	906	1600
	DP		OPH	24	24	23	22	22	22	21	21	22	22
	DP		STH	138	138	135	132	125	125	120	120	117	117
	DP		PIH	415	415	448	305	206	206	0	0	0	0
	DP		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1348	1348	1375	1407	1287	1375	1153	1285	1276	1970
	DP	SI	NFH	267	267	267	255	255	255	255	260	260	265
	DP		OPH	5	5	5	5	5	5	5	5	5	5
	DP		STH	15	15	15	15	15	15	15	15	15	15
	DP		PIH	92	92	91	0	0	0	0	0	0	0
	DP		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				395	395	394	291	291	291	292	297	297	302

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
PNI - Private Nonindustrial Harvest
OPH - Other Public Harvest
STH - State Harvest
NFH - National Forest Harvest

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
STATEWIDE TOTAL				1743	1743	1769	1698	1578	1666	1445	1582	1573	2272
11	PR	NI	NFH	502	502	502	672	672	760	760	878	878	928
	PR		OPH	24	24	23	22	22	22	21	21	22	22
	PR		STH	138	138	135	132	125	125	120	120	117	117
	PR		PIH	330	330	253	191	169	169	163	163	162	162
	PR		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1278	1278	1195	1279	1236	1324	1302	1420	1410	1460
	PR	SI	NFH	267	267	267	255	255	255	255	260	260	265
	PR		OPH	5	5	5	5	5	5	5	5	5	5
	PR		STH	15	15	15	15	15	15	15	15	15	15
	PR		PIH	47	47	37	30	28	28	29	29	29	29
	PR		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				350	350	340	321	319	319	321	326	326	331
STATEWIDE TOTAL				1628	1628	1535	1600	1555	1643	1623	1746	1736	1791
11A	PR	NI	NFH	502	502	502	672	672	760	760	878	878	928
	PR		OPH	24	24	23	22	22	22	21	21	22	22
	PR		STH	138	138	135	132	125	125	120	120	117	117
	PR		PIH	330	330	253	191	169	169	163	163	162	162
	PR		PNI	344	344	424	327	347	347	234	234	0	0
TOTAL				1338	1338	1337	1344	1335	1423	1298	1416	1179	1229
	PR	SI	NFH	267	267	267	255	255	255	255	260	260	265
	PR		OPH	5	5	5	5	5	5	5	5	5	5
	PR		STH	15	15	15	15	15	15	15	15	15	15
	PR		PIH	47	47	37	30	28	28	29	29	29	29

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
PNI - Private Nonindustrial Harvest
OPH - Other Public Harvest
STH - State Harvest
NFH - National Forest Harvest

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	PR		PNI	61	61	71	90	92	92	0	0	0	0
TOTAL				395	395	395	395	395	395	304	309	309	314
STATEWIDE TOTAL				1733	1733	1732	1739	1730	1818	1602	1725	1488	1543
11B	PR	NI	NFH	502	502	502	672	672	760	760	878	878	928
	PR		OPH	82	82	161	79	116	116	55	55	0	0
	PR		STH	138	138	135	132	125	125	120	120	117	117
	PR		PIH	330	330	253	191	169	169	163	163	162	162
	PR		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1336	1336	1333	1336	1330	1418	1336	1454	1388	1438
	PR	SI	NFH	267	267	267	255	255	255	255	260	260	265
	PR		OPH	50	50	60	79	83	83	0	0	0	0
	PR		STH	15	15	15	15	15	15	15	15	15	15
	PR		PIH	47	47	37	30	28	28	29	29	29	29
	PR		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				395	395	395	395	397	397	316	321	321	326
STATEWIDE TOTAL				1731	1731	1728	1731	1727	1815	1652	1775	1709	1764
11C	PR	NI	NFH	502	502	502	672	672	760	760	878	878	928
	PR		OPH	24	24	23	22	22	22	21	21	22	22
	PR		STH	196	196	283	187	221	221	154	154	147	147
	PR		PIH	330	330	253	191	169	169	163	163	162	162
	PR		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1336	1336	1343	1334	1332	1440	1336	1454	1440	1490
	PR	SI	NFH	267	267	267	255	255	255	255	260	260	265

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
PNI - Private Nonindustrial Harvest
OPH - Other Public Harvest
STH - State Harvest
NFH - National Forest Harvest

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	PR		OPH	5	5	5	5	5	5	5	5	5	5
	PR		STH	60	60	70	89	91	91	86	86	0	0
	PR		PIH	47	47	37	30	28	28	29	29	29	29
	PR		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				395	395	395	395	395	395	392	397	311	316
STATEWIDE TOTAL				1731	1731	1738	1729	1727	1835	1728	1851	1751	1806
12	CD	NI	NFH	515	515	515	808	808	845	845	975	975	1044
	CD		OPH	24	24	23	22	22	22	21	21	22	22
	CD		STH	138	138	135	132	125	125	120	120	117	117
	CD		PIH	330	330	253	191	169	169	163	163	162	162
	CD		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1291	1291	1208	1415	1372	1409	1387	1517	1507	1576
	CD	SI	NFH	297	297	297	273	273	249	249	250	250	256
	CD		OPH	5	5	5	5	5	5	5	5	5	5
	CD		STH	15	15	15	15	15	15	15	15	15	15
	CD		PIH	47	47	37	30	28	28	29	29	29	29
	CD		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				380	380	370	339	337	313	315	316	316	322
STATEWIDE TOTAL				1671	1671	1578	1754	1709	1722	1702	1833	1823	1898
12A	CD	NI	NFH	515	515	515	808	808	845	845	975	975	1044
	CD		OPH	24	24	23	22	22	22	21	21	22	22
	CD		STH	138	138	135	132	125	125	120	120	117	117
	CD		PIH	330	330	253	191	169	169	163	163	162	162
	CD		PNI	330	330	411	258	241	241	228	228	216	216

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
PNI - Private Nonindustrial Harvest
OPH - Other Public Harvest
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NFH - National Forest Harvest

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
TOTAL				1337	1337	1337	1411	1365	1402	1377	1507	1492	1561
	CD	SI	NFH	297	297	297	273	273	249	249	250	250	256
	CD		OPH	5	5	5	5	5	5	5	5	5	5
	CD		STH	15	15	15	15	15	15	15	15	15	15
	CD		PIH	47	47	37	30	28	28	29	29	29	29
	CD		PNI	31	31	40	72	99	99	95	95	79	79
TOTAL				395	395	394	395	420	396	393	394	378	384
STATEWIDE TOTAL				1732	1732	1731	1806	1785	1798	1770	1901	1870	1945
12B	CD	NI	NFH	515	515	515	808	808	845	845	975	975	1044
	CD		OPH	69	69	151	21	20	20	20	20	20	20
	CD		STH	138	138	135	132	125	125	120	120	117	117
	CD		PIH	330	330	253	191	169	169	163	163	162	162
	CD		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1336	1336	1336	1414	1370	1407	1386	1516	1505	1574
	CD	SI	NFH	297	297	297	273	273	249	249	250	250	256
	CD		OPH	20	20	30	61	86	86	0	0	0	0
	CD		STH	15	15	15	15	15	15	15	15	15	15
	CD		PIH	47	47	37	30	28	28	29	29	29	29
	CD		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				395	395	395	395	418	394	310	311	311	317
STATEWIDE TOTAL				1731	1731	1731	1809	1788	1801	1696	1827	1816	1891
12C	CD	NI	NFH	515	515	515	808	808	845	845	975	975	1044
	CD		OPH	24	24	23	22	22	22	21	21	22	22

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
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STH - State Harvest
NFH - National Forest Harvest

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	CD		STH	183	183	262	131	124	124	118	118	115	115
	CD		PIH	330	330	253	191	169	169	163	163	162	162
	CD		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1336	1336	1335	1414	1371	1408	1385	1515	1505	1574
	CD	SI	NFH	297	297	297	273	273	249	249	250	250	256
	CD		OPH	5	5	5	5	5	5	5	5	5	5
	CD		STH	30	30	40	71	97	97	95	95	92	92
	CD		PIH	47	47	37	30	28	28	29	29	29	29
	CD		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				395	395	395	395	419	395	395	396	393	399
STATEWIDE TOTAL				1731	1731	1730	1809	1790	1803	1780	1911	1898	1973
13	HB	NI	NFH	774	774	774	1000	1000	1090	1090	1199	1199	1290
	HB		OPH	24	24	23	22	22	22	21	21	22	22
	HB		STH	138	138	135	132	125	125	120	120	117	117
	HB		PIH	330	330	253	191	169	169	163	163	162	162
	HB		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1550	1550	1467	1607	1564	1654	1632	1741	1731	1822
	HB	SI	NFH	406	406	406	427	426	426	426	425	425	426
	HB		OPH	5	5	5	5	5	5	5	5	5	5
	HB		STH	15	15	15	15	15	15	15	15	15	15
	HB		PIH	47	47	37	30	28	28	29	29	29	29
	HB		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				489	489	479	493	490	490	492	491	491	492
STATEWIDE TOTAL				2039	2039	1946	2100	2054	2144	2124	2232	2222	2314

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
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SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
14	LB	NI	NFH	332	332	332	576	576	621	621	762	762	803
	LB		OPH	24	24	23	22	22	22	21	21	22	22
	LB		STH	138	138	135	132	125	125	120	120	117	117
	LB		PIH	330	330	253	191	169	169	163	163	162	162
	LB		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1108	1108	1025	1183	1140	1185	1163	1304	1294	1335
	LB	SI	NFH	142	142	142	134	134	122	122	126	126	134
	LB		OPH	5	5	5	5	5	5	5	5	5	5
	LB		STH	15	15	15	15	15	15	15	15	15	15
	LB		PIH	47	47	37	30	28	28	29	29	29	29
	LB		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				225	225	215	200	198	186	188	192	192	200
STATEWIDE TOTAL				1333	1333	1240	1383	1338	1371	1351	1496	1486	1535
15	DP	NI	NFH	487	487	487	686	686	774	774	906	906	1600
	DP		OPH	24	24	23	22	22	22	21	21	22	22
	DP		STH	138	138	135	132	125	125	120	120	117	117
	DP		PIH	330	330	253	191	169	169	163	163	162	162
	DP		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1263	1263	1180	1293	1250	1338	1316	1448	1438	2132
	DP	SI	NFH	267	267	267	255	255	255	255	260	260	265
	DP		OPH	5	5	5	5	5	5	5	5	5	5
	DP		STH	15	15	15	15	15	15	15	15	15	15
	DP		PIH	47	47	37	30	28	28	29	29	29	29
	DP		PNI	16	16	16	16	16	16	17	17	17	17

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
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SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
TOTAL				350	350	340	321	319	319	321	326	326	331
STATEWIDE TOTAL				1613	1613	1520	1614	1569	1657	1637	1774	1764	2463
1A	PR	NI	NFH	502	502	502	672	672	760	760	878	878	928
	PR		OPH	24	24	23	22	22	22	21	21	22	22
	PR		STH	138	138	135	132	125	125	120	120	117	117
	PR		PIH	415	415	448	305	206	206	0	0	0	0
	PR		PNI	286	286	294	261	247	247	314	314	210	210
TOTAL				1365	1365	1402	1392	1272	1360	1215	1333	1227	1277
	PR	SI	NFH	267	267	267	255	255	255	255	260	260	265
	PR		OPH	5	5	5	5	5	5	5	5	5	5
	PR		STH	15	15	15	15	15	15	15	15	15	15
	PR		PIH	61	61	61	61	0	0	0	0	0	0
	PR		PNI	47	47	47	59	108	108	104	104	0	0
TOTAL				395	395	395	395	383	383	379	384	280	285
STATEWIDE TOTAL				1760	1760	1797	1787	1655	1743	1594	1717	1507	1562
1B	PR	NI	NFH	502	502	502	672	672	760	760	878	878	928
	PR		OPH	23	23	22	22	21	21	156	156	44	44
	PR		STH	138	138	135	132	125	125	120	120	117	117
	PR		PIH	415	415	448	305	206	206	0	0	0	0
	PR		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1362	1362	1389	1393	1272	1360	1274	1392	1270	1320
	PR	SI	NFH	267	267	267	255	255	255	255	260	260	265
	PR		OPH	37	37	36	48	104	104	0	0	0	0

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
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SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	PR		STH	15	15	15	15	15	15	15	15	15	15
	PR		PIH	61	61	61	61	0	0	0	0	0	0
	PR		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				396	396	395	395	390	390	287	292	292	297
STATEWIDE TOTAL				1758	1758	1784	1788	1662	1750	1561	1684	1562	1617
1C	PR	NI	NFH	502	502	502	672	672	760	760	878	878	928
	PR		OPH	24	24	23	22	22	22	21	21	22	22
	PR		STH	138	138	135	141	285	285	267	267	142	142
	PR		PIH	415	415	448	305	206	206	0	0	0	0
	PR		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1363	1363	1390	1402	1433	1521	1286	1404	1273	1323
	PR	SI	NFH	267	267	267	255	255	255	255	260	260	265
	PR		OPH	5	5	5	5	5	5	5	5	5	5
	PR		STH	46	46	46	58	119	119	108	108	81	81
	PR		PIH	61	61	61	61	0	0	0	0	0	0
	PR		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				395	395	395	395	395	395	385	390	363	368
STATEWIDE TOTAL				1758	1758	1785	1797	1828	1916	1671	1794	1636	1691
2A	CD	NI	NFH	515	515	515	808	808	845	845	975	975	1044
	CD		OPH	24	24	23	22	22	22	21	21	22	22
	CD		STH	138	138	135	132	125	125	120	120	117	117
	CD		PIH	415	415	448	305	206	206	0	0	0	0
	CD		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1376	1376	1403	1529	1409	1446	1224	1354	1345	1414

HARVEST VOLUME 1986-2030

LEGEND

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SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	CD	SI	NFH	297	297	297	273	273	249	249	250	250	256
	CD		OPH	5	5	5	5	5	5	5	5	5	5
	CD		STH	15	15	15	15	15	15	15	15	15	15
	CD		PIH	61	61	61	61	0	0	0	0	0	0
	CD		PNI	16	16	17	41	125	125	122	122	0	0
TOTAL				394	394	395	395	418	394	391	392	270	276
STATEWIDE TOTAL				1770	1770	1798	1924	1827	1840	1615	1746	1615	1690
2B	CD	NI	NFH	515	515	515	808	808	845	845	975	975	1044
	CD		OPH	24	24	23	22	22	22	21	21	22	22
	CD		STH	138	138	135	132	125	125	120	120	117	117
	CD		PIH	415	415	448	305	206	206	0	0	0	0
	CD		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1376	1376	1403	1529	1409	1446	1224	1354	1345	1414
	CD	SI	NFH	297	297	297	273	273	249	249	250	250	256
	CD		OPH	6	6	6	30	114	114	90	90	0	0
	CD		STH	15	15	15	15	15	15	15	15	15	15
	CD		PIH	61	61	61	61	0	0	0	0	0	0
	CD		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				395	395	395	395	418	394	371	372	282	288
STATEWIDE TOTAL				1771	1771	1798	1924	1827	1840	1595	1726	1627	1702
2C	CD	NI	NFH	515	515	515	808	808	845	845	975	975	1044
	CD		OPH	24	24	23	22	22	22	21	21	22	22
	CD		STH	138	138	135	132	125	125	280	280	139	139

HARVEST VOLUME 1986-2030

LEGEND

PIH - Private Industrial Harvest
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SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	CD		PIH	415	415	448	305	206	206	0	0	0	0
	CD		PNI	284	284	282	262	248	248	238	238	231	231
TOTAL				1376	1376	1403	1529	1409	1446	1384	1514	1367	1436
	CD	SI	NFH	297	297	297	273	273	249	249	250	250	256
	CD		OPH	5	5	5	5	5	5	5	5	5	5
	CD		STH	16	16	16	40	125	125	124	124	119	119
	CD		PIH	61	61	61	61	0	0	0	0	0	0
	CD		PNI	16	16	16	16	16	16	17	17	17	17
TOTAL				395	395	395	395	419	395	395	396	391	397
STATEWIDE TOTAL				1771	1771	1798	1924	1828	1841	1779	1910	1758	1833
99	HB	NI	NFH	774	774	774	1000	1000	1090	1090	1199	1199	1290
	HB		OPH	69	69	151	21	20	20	20	20	20	20
	HB		STH	196	196	283	187	221	221	154	154	147	147
	HB		PIH	330	330	253	191	169	169	163	163	162	162
	HB		PNI	330	330	411	258	241	241	228	228	216	216
TOTAL				1699	1699	1872	1657	1651	1741	1655	1764	1744	1835
	HB	SI	NFH	406	406	406	427	426	426	426	425	425	426
	HB		OPH	50	50	60	79	83	83	0	0	0	0
	HB		STH	46	46	46	58	119	119	108	108	81	81
	HB		PIH	47	47	37	30	28	28	29	29	29	29
	HB		PNI	31	31	40	72	99	99	95	95	79	79
TOTAL				580	580	589	666	755	755	658	657	614	615
STATEWIDE TOTAL				2279	2279	2461	2323	2406	2496	2313	2421	2358	2450

SAWTIMBER INVENTORY VOLUME IN MMBF

SCENARIO	ALTN	ST	OWNERSHIP SAWTIMBER	1985MMBF	1990MMBF	1995MMBF	2000MMBF	2010MMBF	2020MMBF	2030MMBF
01	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	3359	2338	616	0	0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	PR		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	PR		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	PR		NFS INVENTORY VOL	55859	55859	55859	58555	59241	60269	58899
SUBTOTAL				76607	75415	73977	75887	75759	77626	78234
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	740	569	366	0	0	0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	PR		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	PR		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	PR		NFS INVENTORY VOL	18700	18700	18700	17449	16065	15169	14529
SUBTOTAL				24035	24412	24811	23977	23614	24265	25278
STATEWIDE TOTAL				100642	99827	98788	99864	99373	101891	103512
02	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	3359	2338	616	0	0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	CD		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	CD		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	CD		NFS INVENTORY VOL	56073	56073	56073	58751	58995	59828	58112
SUBTOTAL				76821	75629	74191	76083	75513	77185	77447
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	740	569	366	0	0	0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	CD		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	CD		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	CD		NFS INVENTORY VOL	18712	18712	18712	17222	15820	15157	14823
SUBTOTAL				24047	24424	24823	23750	23369	24253	25572
STATEWIDE TOTAL				100868	100053	99014	99833	98882	101438	103019
03	HB	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	2359	2338	616	0	0
	HB		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	HB		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	HB		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	HB		NFS INVENTORY VOL	66345	66345	66345	68431	67155	67030	66528
SUBTOTAL				87093	85901	83463	85763	83673	84387	85863

SAWTIMBER INVENTORY VOLUME IN MMBF

SCENARIO	ALTN	ST	OWNERSHIP SAWTIMBER	1985MMBF	1990MMBF	1995MMBF	2000MMBF	2010MMBF	2020MMBF	2030MMBF
	HB	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	740	569	366	0	0	0
	HB		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	HB		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	HB		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	HB		NFS INVENTORY VOL	25911	25911	25911	23879	21292	18831	17358
SUBTOTAL				31246	31623	32022	30407	28841	27927	28107
STATEWIDE TOTAL				118339	117524	115485	116170	112514	112314	113970
04	LB	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	2359	2338	616	0	0
	LB		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	LB		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	LB		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	LB		NFS INVENTORY VOL	43900	43900	43900	46773	46357	46796	45452
SUBTOTAL				64648	63456	61018	64105	62875	64153	64787
	LB	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	740	569	366	0	0	0
	LB		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	LB		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	LB		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	LB		NFS INVENTORY VOL	10803	10803	10803	10033	9746	9601	9664
SUBTOTAL				16138	16515	16914	16561	17295	18697	20413
STATEWIDE TOTAL				80786	79971	77932	80666	80170	82850	85200
05	DP	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	2359	2338	616	0	0
	DP		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	DP		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	DP		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	DP		NFS INVENTORY VOL	56874	56874	56874	59809	59788	63284	54571
SUBTOTAL				77622	76430	73992	77141	76306	80641	73906
	DP	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	740	569	366	0	0	0
	DP		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	DP		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	DP		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	DP		NFS INVENTORY VOL	18700	18700	18700	17449	16065	15169	14529
SUBTOTAL				24035	24412	24811	23977	23614	24265	25278

SAWTIMBER INVENTORY VOLUME IN MMBF

SCENARIO	ALTN	ST	OWNERSHIP SAWTIMBER	1985MMBF	1990MMBF	1995MMBF	2000MMBF	2010MMBF	2020MMBF	2030MMBF
STATEWIDE TOTAL				101657	100842	98803	101118	99920	104906	99184
06	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	5075	4159	3334	1688	103	0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	PR		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	PR		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	PR		NFS INVENTORY VOL	55859	55859	55859	58555	59241	60269	58899
SUBTOTAL				76607	75637	74777	76883	76831	77729	78234
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	606	242	0	0	0	0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	PR		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	PR		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	PR		NFS INVENTORY VOL	18700	18700	18700	17499	16065	15169	14529
SUBTOTAL				24035	24278	24484	23661	23614	24265	25278
STATEWIDE TOTAL				100642	99915	99261	100544	100445	101994	103512
07	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	3359	2338	616	0	0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	CD		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	CD		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	CD		NFS INVENTORY VOL	56073	56073	56073	58751	58995	59828	58112
SUBTOTAL				76821	75629	74191	76083	75513	77185	77447
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	738	571	253	0	0	0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	CD		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	CD		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	CD		NFS INVENTORY VOL	18712	18712	18712	17222	15820	15167	14823
SUBTOTAL				24047	24422	24825	23637	23369	24263	25572
STATEWIDE TOTAL				100868	100051	99016	99720	98882	101448	103019
08	HB	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	3359	2338	616	0	0
	HB		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	HB		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393

SAWTIMBER INVENTORY VOLUME IN MMBF

SCENARIO	ALTN	ST	OWNERSHIP SAWTIMBER	1985MMBF	1990MMBF	1995MMBF	2000MMBF	2010MMBF	2020MMBF	2030MMBF
	HB		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	HB		NFS INVENTORY VOL	66345	66345	66345	68431	67155	67030	66528
SUBTOTAL				87093	85901	84463	85763	83673	84387	85863
	HB	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	740	569	366	0	0	0
	HB		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	HB		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	HB		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	HB		NFS INVENTORY VOL	25911	25911	25911	23879	21292	18831	17308
SUBTOTAL				31246	31623	32022	30407	28841	27927	28057
STATEWIDE TOTAL				118339	117524	116485	116170	112514	112314	113920
09	LB	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4020	2120	494	0	0	0
	LB		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	LB		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	LB		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	LB		NFS INVENTORY VOL	43900	43900	43900	46773	46357	46796	45452
SUBTOTAL				64648	62623	60779	62261	62259	64153	64787
	LB	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	30	0	0	0	0	0
	LB		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	LB		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	LB		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	LB		NFS INVENTORY VOL	10803	10803	10803	10033	9746	9601	9664
SUBTOTAL				16138	15805	16345	16195	17295	18697	20413
STATEWIDE TOTAL				80786	78428	77124	78456	79554	82850	85200
10	DP	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	3359	2338	616	0	0
	DP		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	DP		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	DP		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	DP		NFS INVENTORY VOL	56874	56874	56874	59809	59788	63284	54571
SUBTOTAL				77622	76430	74992	77141	76306	80641	73906
	DP	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	606	242	0	0	0	0
	DP		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	DP		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422

SAWTIMBER INVENTORY VOLUME IN MMBF

SCENARIO	ALTN	ST	OWNERSHIP SAWTIMBER	1985MMBF	1990MMBF	1995MMBF	2000MMBF	2010MMBF	2020MMBF	2030MMBF
	DP		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	DP		NFS INVENTORY VOL	18700	18700	18700	17449	16065	15169	14529
SUBTOTAL				24035	24278	24484	23611	23614	24265	25278
STATEWIDE TOTAL				101657	100708	99476	100752	99920	104906	99184
111	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6085	5206	4746	4627	4996	5803	7066
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	PR		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	PR		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	PR		NFS INVENTORY VOL	55859	55859	55859	58555	59241	60269	58899
SUBTOTAL				76673	75768	75364	78176	80139	83429	85300
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	786	737	720	728	726	712
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3214	3796
	PR		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	PR		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	PR		NFS INVENTORY VOL	18700	18700	18700	17449	16065	15169	14529
SUBTOTAL				24035	24458	24979	24331	24342	24991	25990
STATEWIDE TOTAL				100708	100226	100343	102507	104481	108420	111290
111A	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6085	5206	4746	4627	4996	5803	7066
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5509	4828	4311	2924	944	0
	PR		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	PR		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	PR		NFS INVENTORY VOL	55859	55859	55859	58555	59241	60269	58899
SUBTOTAL				76673	75697	74908	77426	78370	80052	81453
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	786	737	720	728	726	712
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1564	1499	1285	760	0	0
	PR		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	PR		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	PR		NFS INVENTORY VOL	18700	18700	18700	17449	16065	15169	14529
SUBTOTAL				24035	24267	24519	23437	22435	21780	22194
STATEWIDE TOTAL				100708	99964	99427	100863	100805	101832	103647

SAWTIMBER INVENTORY VOLUME IN MMBF

SCENARIO	ALTN	ST	OWNERSHIP SAWTIMBER	1985MMBF	1990MMBF	1995MMBF	2000MMBF	2010MMBF	2020MMBF	2030MMBF
1B	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6085	5206	4746	4627	4996	5803	7066
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	PR		OTHER PUBLIC INVENTORY VOL	1735	1787	1531	1449	1065	313	0
	PR		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	PR		NFS INVENTORY VOL	55859	55859	55859	58555	59241	60269	58899
SUBTOTAL				76674	75714	74926	77504	78719	80828	81907
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	786	737	720	728	726	712
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	PR		OTHER PUBLIC INVENTORY VOL	1176	1121	985	751	165	0	0
	PR		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	PR		NFS INVENTORY VOL	18700	18700	18700	17449	16065	15169	14529
SUBTOTAL				24035	24294	24562	23555	22707	22890	23568
STATEWIDE TOTAL				100709	100008	99488	101059	101426	103718	105475
1C	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6085	5206	4746	4627	4996	5803	7066
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	PR		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	PR		STATE INVENTORY VOL	7126	7224	7050	6633	6646	6571	7281
	PR		NFS INVENTORY VOL	55859	55859	55859	58555	59241	60269	58899
SUBTOTAL				76673	75710	74908	76997	78061	79878	80486
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	786	737	720	728	726	712
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	PR		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	PR		STATE INVENTORY VOL	1713	1764	1744	1586	1158	572	0
	PR		NFS INVENTORY VOL	18700	18700	18700	17449	16065	15169	14529
SUBTOTAL				24035	24290	24542	23461	22418	21779	21459
STATEWIDE TOTAL				100708	99800	99450	100458	100479	101657	101945
12	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6085	5206	4746	4627	4996	5803	7066
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	CD		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	CD		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	CD		NFS INVENTORY VOL	56073	56073	56073	58751	58995	59828	58112
SUBTOTAL				76887	75982	75578	78372	79893	82988	84513

SAWTIMBER INVENTORY VOLUME IN MMBF

SCENARIO	ALTN	ST	OWNERSHIP SAWTIMBER	1985MMBF	1990MMBF	1995MMBF	2000MMBF	2010MMBF	2020MMBF	2030MMBF
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	786	737	720	728	726	712
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3210	3796
	CD		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	CD		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	CD		NFS INVENTORY VOL	18712	18712	18712	17222	15820	15157	14823
SUBTOTAL				24047	24470	24991	24104	24097	24979	26284
STATEWIDE TOTAL				100934	100452	100569	102476	103990	107967	110797
12A	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6085	5206	4746	4627	4996	5803	7066
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5523	4916	4498	3986	3447	2771
	CD		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	CD		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	CD		NFS INVENTORY VOL	56073	56073	56073	58751	58995	59828	58112
SUBTOTAL				76887	75925	75210	77809	79186	82114	83437
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	786	737	720	728	726	712
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1714	1825	1792	1476	898	234
	CD		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	CD		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	CD		NFS INVENTORY VOL	18712	18712	18712	17222	15820	15157	14823
SUBTOTAL				24047	24429	24857	23717	22906	22666	22722
STATEWIDE TOTAL				100934	100354	100067	101526	102092	104780	106159
12B	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6085	5206	4746	4627	4996	5803	7066
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	CD		OTHER PUBLIC INVENTORY VOL	1735	1799	1607	1601	1896	2250	2651
	CD		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	CD		NFS INVENTORY VOL	56073	56073	56073	58751	58995	59828	58112
SUBTOTAL				76888	75940	75216	77852	79304	82324	83771
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	786	737	720	728	726	712
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3210	3796
	CD		OTHER PUBLIC INVENTORY VOL	878	940	1017	974	586	0	0
	CD		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	CD		NFS INVENTORY VOL	18712	18712	18712	17222	15820	15157	14823
SUBTOTAL				23749	24125	24606	23551	22883	22878	23862

SAWTIMBER INVENTORY VOLUME IN MMBF

SCENARIO	ALTN	ST	OWNERSHIP SAWTIMBER	1985MMBF	1990MMBF	1995MMBF	2000MMBF	2010MMBF	2020MMBF	2030MMBF
STATEWIDE TOTAL				100637	100065	99822	101403	102187	105202	107633
12C	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6085	5206	4746	4627	4996	5803	7066
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	CD		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	CD		STATE INVENTORY VOL	7126	7239	7141	7273	8077	9348	11172
	CD		NFS INVENTORY VOL	56073	56073	56073	58751	58995	59828	58112
SUBTOTAL				76887	75939	75213	77833	79246	82214	83590
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	786	737	720	728	726	712
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	CD		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	CD		STATE INVENTORY VOL	1713	1889	2043	2057	1846	1366	752
	CD		NFS INVENTORY VOL	18712	18712	18712	17222	15820	15157	14823
SUBTOTAL				24047	24427	24853	23705	22861	22561	22505
STATEWIDE TOTAL				100934	100366	100066	101538	102107	104775	106095
13	HB	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	5206	4746	4627	4996	5803	7066
	HB		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	HB		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	HB		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	HB		NFS INVENTORY VOL	66345	66345	66345	68431	67155	67030	66528
SUBTOTAL				87093	86254	85850	88052	88053	90190	92929
	HB	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	786	737	720	728	726	712
	HB		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	HB		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	HB		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	HB		NFS INVENTORY VOL	25911	25911	25911	23879	21292	18831	17358
SUBTOTAL				31246	31669	32190	30761	29569	28653	28819
STATEWIDE TOTAL				118339	117923	118040	118813	117622	118843	121748
14	LB	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	5206	4746	4627	4996	5803	7066
	LB		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	LB		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393

SAWTIMBER INVENTORY VOLUME IN MMBF

SCENARIO	ALTN	ST	OWNERSHIP SAWTIMBER	1985MMBF	1990MMBF	1995MMBF	2000MMBF	2010MMBF	2020MMBF	2030MMBF
	LB		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	LB		NFS INVENTORY VOL	43900	43900	43900	46773	46357	46796	45452
SUBTOTAL				64648	63809	63405	66394	67255	69956	71853
	LB	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	786	737	720	728	726	712
	LB		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3210	3796
	LB		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	LB		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	LB		NFS INVENTORY VOL	10803	10803	10803	10033	9746	9601	9664
SUBTOTAL				16138	16561	17082	16915	18023	19423	21125
STATEWIDE TOTAL				80786	80370	80487	83309	85278	89379	92978
15	DP	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6085	5206	4746	4627	4996	5803	7066
	DP		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	DP		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	DP		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	DP		NFS INVENTORY VOL	56874	56874	56874	59809	59788	63284	54571
SUBTOTAL				77688	76783	76379	79430	80686	86444	80972
	DP	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	786	737	720	728	726	712
	DP		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3210	3796
	DP		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	DP		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	DP		NFS INVENTORY VOL	18700	18700	18700	17449	16065	15169	14529
SUBTOTAL				24035	24458	24979	24331	24342	24991	25990
STATEWIDE TOTAL				101723	101241	101358	103761	105028	111435	106962
1A	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	3359	2338	616	0	0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5568	5203	4955	4561	3104	2282
	PR		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	PR		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	PR		NFS INVENTORY VOL	55859	55859	55859	58555	59241	60269	58899
SUBTOTAL				76607	75403	73896	75781	75627	76409	76669
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	740	569	366	0	0	0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1623	1649	1624	1322	604	0
	PR		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	0

SAWTIMBER INVENTORY VOLUME IN MMBF

SCENARIO	ALTN	ST	OWNERSHIP SAWTIMBER	1985MMBF	1990MMBF	1995MMBF	2000MMBF	2010MMBF	2020MMBF	2030MMBF
	PR		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	PR		NFS INVENTORY VOL	18700	18700	18700	17449	16065	15169	14529
SUBTOTAL				24035	24280	24501	23422	22269	21658	19060
STATEWIDE TOTAL				100642	99683	98397	99203	97896	98067	95729
1B	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	3359	2338	616	0	0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	PR		OTHER PUBLIC INVENTORY VOL	1735	1846	1979	2133	2497	1297	1191
	PR		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	PR		NFS INVENTORY VOL	55859	55859	55859	58555	59241	60269	58899
SUBTOTAL				76608	75420	73987	75899	75771	76009	76032
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	740	569	366	0	0	0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	PR		OTHER PUBLIC INVENTORY VOL	1176	1155	1102	998	411	0	0
	PR		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	PR		NFS INVENTORY VOL	18700	18700	18700	17449	16065	15169	14529
SUBTOTAL				24035	24282	24511	23448	22225	22164	22856
STATEWIDE TOTAL				100643	99702	98498	99347	97996	98173	98888
1C	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	3359	2338	616	0	0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	PR		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	PR		STATE INVENTORY VOL	7126	7282	7506	7803	8465	8065	9185
	PR		NFS INVENTORY VOL	55859	55859	55859	58555	59241	60269	58899
SUBTOTAL				76607	75415	73977	75878	75500	75569	75324
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	740	569	366	0	0	0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	PR		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	PR		STATE INVENTORY VOL	1713	1800	1867	1888	1633	890	73
	PR		NFS INVENTORY VOL	18700	18700	18700	17449	16065	15169	14529
SUBTOTAL				24035	24280	24497	23409	22165	21371	20820
STATEWIDE TOTAL				100642	99695	98474	99287	97665	96940	96144

SAWTIMBER INVENTORY VOLUME IN MMBF

SCENARIO	ALTN	ST	OWNERSHIP SAWTIMBER	1985MMBF	1990MMBF	1995MMBF	2000MMBF	2010MMBF	2020MMBF	2030MMBF
2A	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	3359	2338	616	0	0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	CD		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	CD		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	CD		NFS INVENTORY VOL	56073	56073	56073	58751	58995	59828	58112
SUBTOTAL				76821	75629	74191	76083	75513	77185	77447
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	740	569	366	0	0	0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1582	1769	1960	2079	1899	974	0
	CD		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	CD		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	CD		NFS INVENTORY VOL	18712	18712	18712	17222	15820	15157	14823
SUBTOTAL				24061	24438	24824	23650	22601	22016	21776
STATEWIDE TOTAL				100882	100067	99015	99733	98114	99201	99223
2B	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	3359	2338	616	0	0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	CD		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	CD		STATE INVENTORY VOL	7126	7282	7506	7812	8724	10122	12095
	CD		NFS INVENTORY VOL	56073	56073	56073	58751	58995	59828	58112
SUBTOTAL				76821	75629	74191	76083	75513	77185	77447
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	740	569	366	0	0	0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	CD		OTHER PUBLIC INVENTORY VOL	1176	1281	1393	1415	1059	159	0
	CD		STATE INVENTORY VOL	1713	1932	2181	2456	3082	3784	4531
	CD		NFS INVENTORY VOL	18712	18712	18712	17222	15820	15157	14823
SUBTOTAL				24047	24420	24814	23638	22628	22311	23150
STATEWIDE TOTAL				100868	100049	99005	99721	98141	99496	100597
2C	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	6019	4853	2359	2338	616	0	0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	5869	5580	5284	5061	4693	4321	3847
	CD		OTHER PUBLIC INVENTORY VOL	1734	1841	1969	2121	2485	2914	3393
	CD		STATE INVENTORY VOL	7126	7282	7506	7812	8724	8238	9440
	CD		NFS INVENTORY VOL	56073	56073	56073	58751	58995	59828	58112
SUBTOTAL				76821	75629	73191	76083	75513	75301	74792

SAWTIMBER INVENTORY VOLUME IN MMBF

SCENARIO	ALTN	ST	OWNERSHIP SAWTIMBER	1985MMBF	1990MMBF	1995MMBF	2000MMBF	2010MMBF	2020MMBF	2030MMBF
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	878	740	569	366	0	0	0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1568	1755	1959	2179	2667	3211	3796
	CD		OTHER PUBLIC INVENTORY VOL	1176	1285	1402	1527	1800	2101	2422
	CD		STATE INVENTORY VOL	1713	1928	2172	2340	2299	1613	738
	CD		NFS INVENTORY VOL	18712	18712	18712	17222	15820	15157	14823
SUBTOTAL				24047	24420	24814	23634	22586	22082	21779
STATEWIDE TOTAL				100868	100049	98005	99717	98099	97383	96571

GROWING STOCK INVENTORY VOLUME IN MMCF

SCENARIO	ALTN	ST	OWNERSHIP-GROWING STOCK	1985MMCF	1990MMCF	1995MMCF	2000MMCF	2010MMCF	2020MMCF	2030MMCF
01	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	PR		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	PR		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5723.0	5597.2	5357.9	5223.4	4951.2	4944.4	5377.4
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.5	167.0	114.7	0.0	0.0	0.0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	PR		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	PR		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1483.6	1551.2	1616.0	1754.8	2028.7	2316.3
STATEWIDE TOTAL				7137.0	7080.8	6909.1	6839.4	6706.0	6973.1	7693.7
02	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	CD		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	CD		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5723.0	5597.2	5357.9	5223.4	4951.2	4944.4	5377.4
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.5	167.0	114.7	0.0	0.0	0.0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	CD		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	CD		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1483.6	1551.2	1616.0	1754.8	2028.7	2316.3
STATEWIDE TOTAL				7137.0	7080.8	6909.1	6839.4	6706.0	6973.1	7693.7
03	HB	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	HB		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	HB		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	HB		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5723.0	5597.2	5357.9	5223.4	4951.2	4944.4	5377.4
	HB	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.7	167.0	114.7	0.0	0.0	0.0
	HB		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	HB		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	HB		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1483.8	1551.2	1616.0	1754.8	2028.7	2316.3

GROWING STOCK INVENTORY VOLUME IN MMCF

SCENARIO	ALTN	ST	OWNERSHIP-GROWING STOCK	1985MMCF	1990MMCF	1995MMCF	2000MMCF	2010MMCF	2020MMCF	2030MMCF
STATEWIDE TOTAL				7137.0	7081.0	6909.1	6839.4	6706.0	6973.1	7693.7
04	LB	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	LB		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	LB		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	LB		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5723.0	5597.2	5357.9	5223.4	4951.2	4944.4	5377.4
	LB	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.7	167.0	114.7	0.0	0.0	0.0
	LB		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	LB		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	LB		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1483.8	1551.2	1616.0	1754.8	2028.7	2316.3
STATEWIDE TOTAL				7137.0	7081.0	6909.1	6839.4	6706.0	6973.1	7693.7
05	DP	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	0.0	0.0	0.0
	DP		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	DP	NI	OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	DP		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5723.0	5597.2	5357.9	5223.4	4574.8	4944.4	5377.4
	DP	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.7	167.0	114.7	0.0	0.0	0.0
	DP		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	DP		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	DP		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1483.8	1551.2	1616.0	1754.8	2028.7	2316.3
STATEWIDE TOTAL				7137.0	7081.0	6909.1	6839.4	6706.0	6973.1	7693.7
06	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1591.7	1412.8	1226.0	754.8	90.6	0.0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	PR		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	PR		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5723.0	5649.2	5562.5	5497.7	5329.6	5035.0	5377.4
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	177.7	83.4	0.0	0.0	0.0	0.0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7

GROWING STOCK INVENTORY VOLUME IN MMCF

SCENARIO	ALTN	ST	OWNERSHIP-GROWING STOCK	1985MMCF	1990MMCF	1995MMCF	2000MMCF	2010MMCF	2020MMCF	2030MMCF
	PR		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	PR		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1450.8	1467.6	1501.3	1754.8	2028.7	2316.3
STATEWIDE TOTAL				7137.0	7100.0	7030.1	6999.0	7084.4	7063.7	7693.7
07	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	CD		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	CD		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5723.0	5597.2	5357.9	5223.4	4951.2	4944.4	5377.4
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.1	167.6	85.2	0.0	0.0	0.0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	CD		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	CD		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1483.2	1551.8	1586.5	1754.8	2028.7	2316.3
STATEWIDE TOTAL				7137.0	7080.4	6909.7	6809.9	6706.0	6973.1	7693.7
08	HB	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	HB		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	HB		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	HB		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				4016.4	3811.3	3472.6	3218.2	2642.4	2241.3	2180.9
	HB	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.5	167.0	114.7	0.0	0.0	0.0
	HB		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	HB		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	HB		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1483.6	1551.2	1616.0	1754.8	2028.7	2316.3
STATEWIDE TOTAL				5430.4	5294.9	5023.8	4834.2	4397.2	4270.0	4497.2
09	LB	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1342.1	874.8	333.7	0.0	0.0	0.0
	LB		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	LB		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	LB		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5

GROWING STOCK INVENTORY VOLUME IN MMCF

SCENARIO	ALTN	ST	OWNERSHIP-GROWING STOCK	1985MMCF	1990MMCF	1995MMCF	2000MMCF	2010MMCF	2020MMCF	2030MMCF
SUBTOTAL				7429.6	7185.5	6909.8	6610.6	6883.6	7647.5	8573.9
	LB	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	24.7	0.0	0.0	0.0	0.0	0.0
	LB		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	LB		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	LB		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1297.8	1384.2	1501.3	1754.8	2028.7	2316.3
STATEWIDE TOTAL				8843.6	8483.3	8294.0	8111.9	8638.4	9676.2	10890.2
10	DP	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	DP		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	DP		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	DP		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5723.0	5597.2	5357.9	5223.4	4951.2	4944.4	5377.4
	DP	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	177.7	83.4	0.0	0.0	0.0	0.0
	DP		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	DP		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	DP		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1450.8	1467.6	1501.3	1754.8	2028.7	2316.3
STATEWIDE TOTAL				7137.0	7048.0	6825.5	6724.7	6706.0	6973.1	7693.7
11	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1745.6	1606.3	1561.0	1592.0	1780.3	2039.0	2374.5
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	PR		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	PR		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5722.1	5663.8	5710.7	5863.7	6355.1	6983.4	7751.9
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	221.6	207.8	202.1	201.1	198.2	193.2
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	PR		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	PR		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1494.7	1592.0	1703.4	1955.9	2226.9	2509.5
STATEWIDE TOTAL				7136.1	7158.5	7302.7	7567.1	8311.0	9210.3	10261.4
11a	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1745.6	1606.3	1561.0	1592.0	1780.3	2039.0	2374.5

GROWING STOCK INVENTORY VOLUME IN MMCF

SCENARIO	ALTN	ST	OWNERSHIP-GROWING STOCK	1985MMCF	1990MMCF	1995MMCF	2000MMCF	2010MMCF	2020MMCF	2030MMCF
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1708.5	1573.0	1465.0	1111.9	494.7	0.0
	PR		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	PR		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5722.1	5647.3	5602.2	5684.0	5906.5	6032.2	6461.4
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	221.6	207.8	202.1	201.1	198.2	193.2
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	405.9	390.6	343.9	226.9	0.0	0.0
	PR		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	PR		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1455.8	1498.4	1521.3	1565.8	1510.0	1685.8
STATEWIDE	TOTAL			7136.1	7103.1	7100.6	7205.3	7472.3	7542.2	8147.2
11b	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1745.6	1606.3	1561.0	1592.0	1780.3	2039.0	2374.5
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	PR		OTHER PUBLIC INVENTORY VOL	512.2	534.5	485.5	470.5	367.1	123.1	0.0
	PR		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5722.1	5651.7	5613.3	5712.4	6016.7	6311.1	6861.5
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	221.6	207.8	202.1	201.1	198.2	193.2
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	PR		OTHER PUBLIC INVENTORY VOL	324.0	313.5	284.8	233.7	84.6	0.0	0.0
	PR		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1460.9	1505.5	1540.9	1592.1	1723.0	1947.5
STATEWIDE	TOTAL			7136.1	7112.6	7118.8	7253.3	7608.8	8034.1	8809.0
11c	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1745.6	1606.3	1561.0	1592.0	1780.3	2039.0	2374.5
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	PR		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	PR		STATE INVENTORY VOL	1706.6	1773.8	1789.9	1755.1	1860.8	1917.3	2133.1
SUBTOTAL				5722.1	5651.7	5615.3	5613.6	5907.1	6197.6	6688.5
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	221.6	207.8	202.1	201.1	198.2	193.2
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	PR		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	PR		STATE INVENTORY VOL	436.7	446.4	439.0	401.4	298.7	158.8	0.0
SUBTOTAL				1414.0	1460.1	1502.3	1525.7	1565.2	1577.8	1578.9

GROWING STOCK INVENTORY VOLUME IN MMCF

SCENARIO	ALTN	ST	OWNERSHIP-GROWING STOCK	1985MMCF	1990MMCF	1995MMCF	2000MMCF	2010MMCF	2020MMCF	2030MMCF
STATEWIDE TOTAL				7136.1	7111.8	7117.6	7139.3	7472.3	7775.4	8267.4
12	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1745.6	1606.3	1561.0	1592.0	1780.3	2039.0	2374.5
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	CD		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	CD		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5722.1	5663.8	5710.7	5863.7	6355.1	6983.4	7751.9
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	221.6	207.8	202.1	201.1	198.2	193.2
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	CD		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	CD		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1494.7	1592.0	1703.4	1955.9	2226.9	2509.5
STATEWIDE TOTAL				7136.1	7158.5	7302.7	7567.1	8311.0	9210.3	10261.4
12a	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1745.6	1606.3	1561.0	1592.0	1780.3	2039.0	2374.5
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1711.8	1594.0	1510.8	1391.0	1230.5	1015.1
	CD		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	CD		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5722.1	5650.6	5623.2	5729.8	6185.6	6768.0	7476.5
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	221.6	207.8	202.1	201.1	198.2	193.2
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	436.6	457.1	447.8	377.4	251.3	95.4
	CD		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	CD		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1486.5	1564.9	1625.2	1716.3	1761.3	1781.2
STATEWIDE TOTAL				7136.1	7137.1	7188.1	7355.0	7901.9	8529.3	9257.7
12b	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1745.6	1606.3	1561.0	1592.0	1780.3	2039.0	2374.5
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	CD		OTHER PUBLIC INVENTORY VOL	512.2	537.6	504.6	508.9	578.8	654.3	734.7
	CD		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5722.1	5654.8	5632.4	5750.8	6228.4	6842.3	7596.2
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	221.6	207.8	202.1	201.1	198.2	193.2
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	CD		OTHER PUBLIC INVENTORY VOL	245.5	258.4	274.3	261.6	165.6	0.0	0.0

GROWING STOCK INVENTORY VOLUME IN MMCF

SCENARIO	ALTN	ST	OWNERSHIP-GROWING STOCK	1985MMCF	1990MMCF	1995MMCF	2000MMCF	2010MMCF	2020MMCF	2030MMCF
	CD		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1405.8	1495.0	1568.8	1673.1	1723.0	1947.5
STATEWIDE TOTAL				7136.1	7060.6	7127.4	7319.6	7901.5	8565.3	9543.7
12c	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1745.6	1606.3	1561.0	1592.0	1780.3	2039.0	2374.5
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	CD		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	CD		STATE INVENTORY VOL	1706.6	1776.6	1808.9	1892.5	2174.6	2543.7	3007.9
SUBTOTAL				5722.1	5654.5	5634.3	5751.0	6220.9	6824.0	7563.3
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	221.6	207.8	202.1	201.1	198.2	193.2
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	CD		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	CD		STATE INVENTORY VOL	436.7	472.2	500.5	498.4	442.3	330.2	190.5
SUBTOTAL				1414.0	1485.9	1563.8	1622.7	1708.8	1749.2	1769.4
STATEWIDE TOTAL				7136.1	7140.4	7198.1	7373.7	7929.7	8573.2	9332.7
13	HB	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1745.6	1606.3	1561.0	1592.0	1780.3	2039.0	2374.5
	HB		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	HB		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	HB		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5722.1	5663.8	5710.7	5863.7	6355.1	6983.4	7751.9
	HB	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	221.6	207.8	202.1	201.1	198.2	193.2
	HB		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	HB		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	HB		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1494.7	1592.0	1703.4	1955.9	2226.9	2509.5
STATEWIDE TOTAL				7136.1	7158.5	7302.7	7567.1	8311.0	9210.3	10261.4
14	LB	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1745.6	1606.3	1561.0	1592.0	1780.3	2039.0	2374.5
	LB		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	LB		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	LB		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5722.1	5663.8	5710.7	5863.7	6355.1	6983.4	7751.9

GROWING STOCK INVENTORY VOLUME IN MMCF

SCENARIO	ALTN	ST	OWNERSHIP-GROWING STOCK	1985MMCF	1990MMCF	1995MMCF	2000MMCF	2010MMCF	2020MMCF	2030MMCF
	LB	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	221.6	207.8	202.1	201.1	198.2	193.2
	LB		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	LB		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	LB		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1494.7	1592.0	1703.4	1955.9	2226.9	2509.5
STATEWIDE TOTAL				7136.1	7158.5	7302.7	7567.1	8311.0	9210.3	10261.4
1S	DP	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1745.6	1606.3	1561.0	1592.0	1780.3	2039.0	2374.5
	DP		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	DP		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	DP		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5722.1	5663.8	5710.7	5863.7	6355.1	6983.4	7751.9
	DP	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	221.6	207.8	202.1	201.1	198.2	193.2
	DP		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	DP		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	DP		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1494.7	1592.0	1703.4	1955.9	2226.9	2509.5
STATEWIDE TOTAL				7136.1	7158.5	7302.7	7567.1	8311.0	9210.3	10261.4
1A	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1722.3	1662.4	1619.9	1529.2	1120.8	870.5
	PR		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	PR		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5723.0	5594.5	5338.8	5198.6	4919.9	4619.3	4957.4
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.5	167.0	114.7	0.0	0.0	0.0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	418.0	421.3	413.8	345.8	187.1	0.0
	PR		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	803.9	562.0
	PR		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1456.8	1488.3	1503.8	1483.6	1798.9	1492.6
STATEWIDE TOTAL				7137.0	7051.3	6827.1	6702.4	6403.5	6418.2	6450.0
1B	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5

GROWING STOCK INVENTORY VOLUME IN MMCF

SCENARIO	ALTN	ST	OWNERSHIP-GROWING STOCK	1985MMCF	1990MMCF	1995MMCF	2000MMCF	2010MMCF	2020MMCF	2030MMCF
	PR		OTHER PUBLIC INVENTORY VOL	512.2	547.5	584.8	623.9	707.3	417.5	376.0
	PR		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5723.0	5598.1	5359.8	5225.5	4953.0	4566.5	4863.0
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.5	167.0	114.7	0.0	0.0	0.0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	PR		OTHER PUBLIC INVENTORY VOL	324.0	320.5	309.4	286.6	152.3	0.0	0.0
	PR	SI	STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1456.8	1489.3	1506.4	1458.7	1524.8	1754.3
STATEWIDE TOTAL				7137.0	7054.9	6849.1	6731.9	6411.7	6091.3	6617.3
1C	PR	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	PR		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	PR		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2003.2	2250.4	2228.0	2538.0
SUBTOTAL				5723.0	5597.2	5357.9	5221.4	4892.8	4469.3	4718.9
	PR	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.5	167.0	114.7	0.0	0.0	0.0
	PR		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	PR		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	PR		STATE INVENTORY VOL	436.7	453.8	464.5	464.1	398.7	229.3	29.8
SUBTOTAL				1414.0	1456.4	1487.0	1501.0	1464.1	1450.1	1415.5
STATEWIDE TOTAL				7137.0	7053.6	6844.9	6722.4	6356.9	5919.4	6134.4
2A	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	CD		OTHER PUBLIC INVENTORY VOL	512.2	546.0	582.9	621.8	705.5	795.4	890.4
	CD		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5723.0	5596.6	5357.9	5223.4	4951.2	4944.4	5377.4
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.7	167.0	114.7	0.0	0.0	0.0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	440.8	474.3	491.5	430.5	216.1	0.0
	CD		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	396.2	448.4	503.9	562.0
	CD		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.0
SUBTOTAL				1414.0	1479.8	1541.3	1581.5	1568.3	1527.9	1492.0
STATEWIDE TOTAL				7137.0	7076.4	6899.2	6804.9	6519.5	6472.3	6869.4

GROWING STOCK INVENTORY VOLUME IN MMCF

SCENARIO	ALTN	ST	OWNERSHIP-GROWING STOCK	1985MMCF	1990MMCF	1995MMCF	2000MMCF	2010MMCF	2020MMCF	2030MMCF
2B	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	CD		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	CD		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2703.1	3196.5
SUBTOTAL				5723.0	5597.2	5357.9	5223.4	4951.2	4944.4	5377.4
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.5	167.0	114.7	0.0	0.0	0.0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	CD		OTHER PUBLIC INVENTORY VOL	324.0	346.4	369.4	373.0	294.7	75.9	0.0
	CD		STATE INVENTORY VOL	436.7	481.0	528.7	579.1	689.4	807.9	930.6
SUBTOTAL				1414.0	1482.7	1549.3	1592.8	1601.1	1600.7	1754.3
STATEWIDE TOTAL				7137.0	7079.9	6907.2	6816.2	6552.3	6545.1	7131.7
2C	CD	NI	PRIVATE INDUSTRIAL INVENTORY VOL	1746.5	1539.7	1208.2	951.7	376.4	0.0	0.0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	1757.7	1725.0	1681.5	1644.7	1560.5	1445.9	1290.5
	CD		OTHER PUBLIC INVENTORY VOL	512.2	546.6	582.9	621.8	705.5	795.4	890.4
	CD		STATE INVENTORY VOL	1706.6	1785.9	1885.3	2005.2	2308.8	2265.3	2594.0
SUBTOTAL				5723.0	5597.2	5357.9	5223.4	4951.2	4506.6	4774.9
	CD	SI	PRIVATE INDUSTRIAL INVENTORY VOL	245.5	210.7	167.0	114.7	0.0	0.0	0.0
	CD		PRIVATE NONINDUSTRIAL INVENTORY VOL	407.8	444.8	484.2	526.0	617.0	716.9	823.7
	CD		OTHER PUBLIC INVENTORY VOL	324.0	347.3	371.3	346.2	444.8	503.9	562.0
	CD		STATE INVENTORY VOL	436.7	480.2	526.7	555.9	533.8	380.4	187.0
SUBTOTAL				1414.0	1483.0	1549.2	1542.8	1599.2	1601.2	1572.7
STATEWIDE TOTAL				7137.0	7080.2	6907.1	6766.2	6550.4	6107.8	6347.6

NATIONAL FOREST HARVEST VOLUMES 1986-2030 (SBA & LARGE INDUSTRY)

LEGEND

SBA - SBA Set Aside Portion
LIP - Large Industry Portion

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
00	LB	NI	LIP	173	173	173	300	300	323	323	397	397	418
	LB		SBA	159	159	159	276	276	298	298	365	365	385
TOTAL				332	332	332	576	576	621	621	762	762	803
	LB	SI	LIP	91	91	91	86	86	78	78	81	81	86
	LB		SBA	51	51	51	48	48	44	44	45	45	48
TOTAL				142	142	142	134	134	122	122	126	126	134
STATEWIDE TOTAL				474	474	474	710	710	743	743	888	888	937
01	PR	NI	LIP	261	261	261	349	350	396	396	457	457	483
	PR		SBA	241	241	241	323	322	364	364	421	421	445
TOTAL				502	502	502	672	672	760	760	878	878	928
	PR	SI	LIP	171	171	171	163	163	163	163	166	166	169
	PR		SBA	96	96	96	92	92	92	92	94	94	96
TOTAL				267	267	267	255	255	255	255	260	260	265
STATEWIDE TOTAL				769	769	769	927	927	1015	1015	1138	1138	1193
02	CD	NI	LIP	268	268	268	420	421	440	440	508	508	544
	CD		SBA	247	247	247	388	387	405	405	467	467	500
TOTAL				515	515	515	808	808	845	845	975	975	1044
	CD	SI	LIP	190	190	190	175	175	159	159	160	160	164
	CD		SBA	107	107	107	98	98	90	90	90	90	92

NATIONAL FOREST HARVEST VOLUMES 1986-2030 (SBA & LARGE INDUSTRY)

LEGEND

SBA - SBA Set Aside Portion
LIP - Large Industry Portion

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
TOTAL				297	297	297	273	273	249	249	250	250	256
STATEWIDE TOTAL				812	812	812	1081	1081	1094	1094	1225	1225	1300
03	HB	NI	LIP	403	403	403	520	521	568	568	624	624	672
	HB		SBA	371	371	371	480	479	522	522	575	575	618
TOTAL				774	774	774	1000	1000	1090	1090	1199	1199	1290
	HB	SI	LIP	260	260	260	273	272	272	272	272	272	272
	HB		SBA	146	146	146	154	154	154	154	153	153	154
TOTAL				406	406	406	427	426	426	426	425	425	426
STATEWIDE TOTAL				1180	1180	1180	1427	1426	1516	1516	1624	1624	1716
04	LB	NI	LIP	173	173	173	300	300	323	323	397	397	418
	LB		SBA	159	159	159	276	276	298	298	365	365	385
TOTAL				332	332	332	576	576	621	621	762	762	803
04	LB	SI	LIP	91	91	91	86	86	78	78	81	81	86
	LB		SBA	51	51	51	48	48	44	44	45	45	48
TOTAL				142	142	142	134	134	122	122	126	126	134
STATEWIDE TOTAL				474	474	474	710	710	743	743	888	888	937
05	DP	NI	LIP	253	253	253	357	357	403	403	472	472	833
	DP		SBA	234	234	234	329	329	371	371	434	434	767

NATIONAL FOREST HARVEST VOLUMES 1986-2030 (SBA & LARGE INDUSTRY)

LEGEND

SBA - SBA Set Aside Portion
LIP - Large Industry Portion

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
TOTAL				487	487	487	686	686	774	774	906	906	1600
	DP	SI	LIP	171	171	171	163	163	163	163	166	166	169
	DP		SBA	96	96	96	92	92	92	92	94	94	96
TOTAL				267	267	267	255	255	255	255	260	260	265
STATEWIDE TOTAL				754	754	754	941	941	1029	1029	1166	1166	1865
06	PR	NI	LIP	261	261	261	349	350	396	396	457	457	483
	PR		SBA	241	241	241	323	322	364	364	421	421	445
TOTAL				502	502	502	672	672	760	760	878	878	928
	PR	SI	LIP	171	171	171	163	163	163	163	166	166	169
	PR		SBA	96	96	96	92	92	92	92	94	94	96
TOTAL				267	267	267	255	255	255	255	260	260	265
STATEWIDE TOTAL				769	769	769	927	927	1015	1015	1138	1138	1193
07	CD	NI	LIP	268	268	268	420	421	440	440	508	508	544
	CD		SBA	247	247	247	388	387	405	405	467	467	500
TOTAL				515	515	515	808	808	845	845	975	975	1044
	CD	SI	LIP	190	190	190	175	175	159	159	160	160	164
	CD		SBA	107	107	107	98	98	90	90	90	90	92
TOTAL				297	297	297	273	273	249	249	250	250	256

NATIONAL FOREST HARVEST VOLUMES 1986-2030 (SBA & LARGE INDUSTRY)

LEGEND

SBA - SBA Set Aside Portion
LIP - Large Industry Portion

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
STATEWIDE TOTAL				812	812	812	1081	1081	1094	1094	1225	1225	1300
08	HB	NI	LIP	403	403	403	520	521	568	568	624	624	672
	HB		SBA	371	371	371	480	479	522	522	575	575	618
TOTAL				774	774	774	1000	1000	1090	1090	1199	1199	1290
08	HB	SI	LIP	260	260	260	273	272	272	272	272	272	272
	HB		SBA	146	146	146	154	154	154	154	153	153	154
TOTAL				406	406	406	427	426	426	426	425	425	426
STATEWIDE TOTAL				1180	1180	1180	1427	1426	1516	1516	1624	1624	1716
09	LB	NI	LIP	173	173	173	300	300	323	323	397	397	418
	LB		SBA	159	159	159	276	276	298	298	365	365	385
TOTAL				332	332	332	576	576	621	621	762	762	803
	LB	SI	LIP	91	91	91	86	86	78	78	81	81	86
	LB		SBA	51	51	51	48	48	44	44	45	45	48
TOTAL				142	142	142	134	134	122	122	126	126	134
STATEWIDE TOTAL				474	474	474	710	710	743	743	888	888	937
10	DP	NI	LIP	253	253	253	357	357	403	403	472	472	833
	DP		SBA	234	234	234	329	329	371	371	434	434	767
TOTAL				487	487	487	686	686	774	774	906	906	1600

NATIONAL FOREST HARVEST VOLUMES 1986-2030 (SBA & LARGE INDUSTRY)

LEGEND

SBA - SBA Set Aside Portion
LIP - Large Industry Portion

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	DP	SI	LIP	171	171	171	163	163	163	163	166	166	169
	DP		SBA	96	96	96	92	92	92	92	94	94	96
TOTAL				267	267	267	255	255	255	255	260	260	265
STATEWIDE TOTAL				754	754	754	941	941	1029	1029	1166	1166	1865
11	PR	NI	LIP	261	261	261	349	350	396	396	457	457	483
	PR		SBA	241	241	241	323	322	364	364	421	421	445
TOTAL				502	502	502	672	672	760	760	878	878	928
	PR	SI	LIP	171	171	171	163	163	163	163	166	166	169
	PR		SBA	96	96	96	92	92	92	92	94	94	96
TOTAL				267	267	267	255	255	255	255	260	260	265
STATEWIDE TOTAL				769	769	769	927	927	1015	1015	1138	1138	1193
11A	PR	NI	LIP	261	261	261	349	350	396	396	457	457	483
	PR		SBA	241	241	241	323	322	364	364	421	421	445
TOTAL				502	502	502	672	672	760	760	878	878	928
	PR	SI	LIP	171	171	171	163	163	163	163	166	166	169
	PR		SBA	96	96	96	92	92	92	92	94	94	96
TOTAL				267	267	267	255	255	255	255	260	260	265
STATEWIDE TOTAL				769	769	769	927	927	1015	1015	1138	1138	1193

NATIONAL FOREST HARVEST VOLUMES 1986-2030 (SBA & LARGE INDUSTRY)

LEGEND

SBA - SBA Set Aside Portion
LIP - Large Industry Portion

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
11B	PR	NI	LIP	261	261	261	349	350	396	396	457	457	483
	PR		SBA	241	241	241	323	322	364	364	421	421	445
TOTAL				502	502	502	672	672	760	760	878	878	928
	PR	SI	LIP	171	171	171	163	163	163	163	166	166	169
	PR		SBA	96	96	96	92	92	92	92	94	94	96
TOTAL				267	267	267	255	255	255	255	260	260	265
STATEWIDE	TOTAL			769	769	769	927	927	1015	1015	1138	1138	1193
11C	PR	NI	LIP	261	261	261	349	350	396	396	457	457	483
	PR		SBA	241	241	241	323	322	364	364	421	421	445
TOTAL				502	502	502	672	672	760	760	878	878	928
	PR	SI	LIP	171	171	171	163	163	163	163	166	166	169
	PR		SBA	96	96	96	92	92	92	92	94	94	96
TOTAL				267	267	267	255	255	255	255	260	260	265
STATEWIDE	TOTAL			769	769	769	927	927	1015	1015	1138	1138	1193
12	CD	NI	LIP	268	268	268	420	421	440	440	508	508	544
	CD		SBA	247	247	247	388	387	405	405	467	467	500
TOTAL				515	515	515	808	808	845	845	975	975	1044
	CD	SI	LIP	190	190	190	175	175	159	159	160	160	164

NATIONAL FOREST HARVEST VOLUMES 1986-2030 (SBA & LARGE INDUSTRY)

LEGEND

SBA - SBA Set Aside Portion
LIP - Large Industry Portion

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	CD		SBA	107	107	107	98	98	90	90	90	90	92
TOTAL				297	297	297	273	273	249	249	250	250	256
STATEWIDE TOTAL				812	812	812	1081	1081	1094	1094	1225	1225	1300
12A	CD	NI	LIP	268	268	268	420	421	440	440	508	508	544
	CD		SBA	247	247	247	388	387	405	405	467	467	500
TOTAL				515	515	515	808	808	845	845	975	975	1044
	CD	SI	LIP	190	190	190	175	175	159	159	160	160	164
	CD		SBA	107	107	107	98	98	90	90	90	90	92
TOTAL				297	297	297	273	273	249	249	250	250	256
STATEWIDE TOTAL				812	812	812	1081	1081	1094	1094	1225	1225	1300
12B	CD	NI	LIP	268	268	268	420	421	440	440	508	508	544
	CD		SBA	247	247	247	388	387	405	405	467	467	500
TOTAL				515	515	515	808	808	845	845	975	975	1044
	CD	SI	LIP	190	190	190	175	175	159	159	160	160	164
	CD		SBA	107	107	107	98	98	90	90	90	90	92
TOTAL				297	297	297	273	273	249	249	250	250	256
STATEWIDE TOTAL				812	812	812	1081	1081	1094	1094	1225	1225	1300
12C	CD	NI	LIP	268	268	268	420	421	440	440	508	508	544

NATIONAL FOREST HARVEST VOLUMES 1986-2030 (SBA & LARGE INDUSTRY)

LEGEND

SBA - SBA Set Aside Portion
LIP - Large Industry Portion

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
	CD		SBA	247	247	247	388	387	405	405	467	467	500
TOTAL				515	515	515	808	808	845	845	975	975	1044
	CD	SI	LIP	190	190	190	175	175	159	159	160	160	164
	CD		SBA	107	107	107	98	98	90	90	90	90	92
TOTAL				297	297	297	273	273	249	249	250	250	256
STATEWIDE TOTAL				812	812	812	1081	1081	1094	1094	1225	1225	1300
13	HB	NI	LIP	403	403	403	520	521	568	568	624	624	672
	HB		SBA	371	371	371	480	479	522	522	575	575	618
TOTAL				774	774	774	1000	1000	1090	1090	1199	1199	1290
	HB	SI	LIP	260	260	260	273	272	272	272	272	272	272
	HB		SBA	146	146	146	154	154	154	154	153	153	154
TOTAL				406	406	406	427	426	426	426	425	425	426
STATEWIDE TOTAL				1180	1180	1180	1427	1426	1516	1516	1624	1624	1716
14	LB	NI	LIP	173	173	173	300	300	323	323	397	397	418
	LB		SBA	159	159	159	276	276	298	298	365	365	385
TOTAL				332	332	332	576	576	621	621	762	762	803
	LB	SI	LIP	91	91	91	86	86	78	78	81	81	86
	LB		SBA	51	51	51	48	48	44	44	45	45	48

NATIONAL FOREST HARVEST VOLUMES 1986-2030 (SBA & LARGE INDUSTRY)

LEGEND

SBA - SBA Set Aside Portion
LIP - Large Industry Portion

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
TOTAL				142	142	142	134	134	122	122	126	126	134
STATEWIDE TOTAL				474	474	474	710	710	743	743	888	888	937
1S	DP	NI	LIP	253	253	253	357	357	403	403	472	472	833
1S	DP	NI	SBA	234	234	234	329	329	371	371	434	434	767
TOTAL				487	487	487	686	686	774	774	906	906	1600
	DP	SI	LIP	171	171	171	163	163	163	163	166	166	169
	DP		SBA	96	96	96	92	92	92	92	94	94	96
TOTAL				267	267	267	255	255	255	255	260	260	265
STATEWIDE TOTAL				754	754	754	941	941	1029	1029	1166	1166	1865
1A	PR	NI	LIP	261	261	261	349	350	396	396	457	457	483
	PR		SBA	241	241	241	323	322	364	364	421	421	445
TOTAL				502	502	502	672	672	760	760	878	878	928
	PR	SI	LIP	171	171	171	163	163	163	163	166	166	169
	PR		SBA	96	96	96	92	92	92	92	94	94	96
TOTAL				267	267	267	255	255	255	255	260	260	265
STATEWIDE TOTAL				769	769	769	927	927	1015	1015	1138	1138	1193
1B	PR	NI	LIP	261	261	261	349	350	396	396	457	457	483
	PR		SBA	241	241	241	323	322	364	364	421	421	445

NATIONAL FOREST HARVEST VOLUMES 1986-2030 (SBA & LARGE INDUSTRY)

LEGEND

SBA - SBA Set Aside Portion
LIP - Large Industry Portion

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
TOTAL				502	502	502	672	672	760	760	878	878	928
	PR	SI	LIP	171	171	171	163	163	163	163	166	166	169
	PR		SBA	96	96	96	92	92	92	92	94	94	96
TOTAL				267	267	267	255	255	255	255	260	260	265
STATEWIDE	TOTAL			769	769	769	927	927	1015	1015	1138	1138	1193
1C	PR	NI	LIP	261	261	261	349	350	396	396	457	457	483
	PR		SBA	241	241	241	323	322	364	364	421	421	445
TOTAL				502	502	502	672	672	760	760	878	878	928
	PR	SI	LIP	171	171	171	163	163	163	163	166	166	169
	PR		SBA	96	96	96	92	92	92	92	94	94	96
TOTAL				267	267	267	255	255	255	255	260	260	265
STATEWIDE	TOTAL			769	769	769	927	927	1015	1015	1138	1138	1193
2A	CD	NI	LIP	268	268	268	420	421	440	440	508	508	544
	CD		SBA	247	247	247	388	387	405	405	467	467	500
TOTAL				515	515	515	808	808	845	845	975	975	1044
2A	CD	SI	LIP	190	190	190	175	175	159	159	160	160	164
	CD		SBA	107	107	107	98	98	90	90	90	90	92
TOTAL				297	297	297	273	273	249	249	250	250	256

NATIONAL FOREST HARVEST VOLUMES 1986-2030 (SBA & LARGE INDUSTRY)

LEGEND

SBA - SBA Set Aside Portion
LIP - Large Industry Portion

SCENARIO	ALTN	ST	ABBREV	1986	1990	1995	2000	2005	2010	2015	2020	2025	2030
STATEWIDE TOTAL				812	812	812	1081	1081	1094	1094	1225	1225	1300
2B	CD	NI	LIP	268	268	268	420	421	440	440	508	508	544
	CD		SBA	247	247	247	388	387	405	405	467	467	500
TOTAL				515	515	515	808	808	845	845	975	975	1044
	CD	SI	LIP	190	190	190	175	175	159	159	160	160	164
	CD		SBA	107	107	107	98	98	90	90	90	90	92
TOTAL				297	297	297	273	273	249	249	250	250	256
STATEWIDE TOTAL				812	812	812	1081	1081	1094	1094	1225	1225	1300
2C	CD	NI	LIP	268	268	268	420	421	440	440	508	508	544
	CD		SBA	247	247	247	388	387	405	405	467	467	500
TOTAL				515	515	515	808	808	845	845	975	975	1044
	CD	SI	LIP	190	190	190	175	175	159	159	160	160	164
	CD		SBA	107	107	107	98	98	90	90	90	90	92
TOTAL				297	297	297	273	273	249	249	250	250	256
STATEWIDE TOTAL				812	812	812	1081	1081	1094	1094	1225	1225	1300
99	HB	NI	LIP	403	403	403	520	521	568	568	624	624	672
	HB		SBA	371	371	371	480	479	522	522	575	575	618
TOTAL				774	774	774	1000	1000	1090	1090	1199	1199	1290

APPENDIX D

ECONOMIC IMPACTS TABLE
North Idaho

	NUMBER OF JOBS				INCOME(MILLIONS $1985)			
	1986	1990	1995	2000	1986	1990	1995	2000
SCENARIO: 00 ST: NI								
ALL INDUSTRIAL SECTORS	18708	18708	17306	19993	734	734	679	785
WOOD PRODUCTS SECTORS	9077	9077	8397	9701	443	443	410	473
SCENARIO: 01 ST: NI								
ALL INDUSTRIAL SECTORS	23035	23035	23491	23542	904	904	922	924
WOOD PRODUCTS SECTORS	11177	11177	11398	11423	545	545	556	557
SCENARIO: 02 ST: NI								
ALL INDUSTRIAL SECTORS	23254	23254	23711	25840	913	913	931	1014
WOOD PRODUCTS SECTORS	11283	11283	11505	12538	550	550	561	612
SCENARIO: 03 ST: NI								
ALL INDUSTRIAL SECTORS	27631	27631	28088	29085	1085	1085	1103	1142
WOOD PRODUCTS SECTORS	13407	13407	13628	14112	654	654	665	688
SCENARIO: 04 ST: NI								
ALL INDUSTRIAL SECTORS	20162	20162	20618	21919	791	791	809	860
WOOD PRODUCTS SECTORS	9783	9783	10004	10635	477	477	488	519
SCENARIO: 05 ST: NI								
ALL INDUSTRIAL SECTORS	22781	22781	23237	23778	894	894	912	933
WOOD PRODUCTS SECTORS	11054	11054	11275	11537	539	539	550	563

ECONOMIC IMPACTS TABLE
North Idaho

	NUMBER OF JOBS				INCOME(MILLIONS $1985)			
	1986	1990	1995	2000	1986	1990	1995	2000
SCENARIO: 06 ST: NI								
ALL INDUSTRIAL SECTORS	22561	22561	22223	23728	886	886	872	931
WOOD PRODUCTS SECTORS	10947	10947	10783	11513	534	534	526	562
SCENARIO: 07 ST: NI								
ALL INDUSTRIAL SECTORS	23254	23254	23711	25840	913	913	931	1014
WOOD PRODUCTS SECTORS	11283	11283	11505	12538	550	550	561	612
SCENARIO: 08 ST: NI								
ALL INDUSTRIAL SECTORS	27631	27631	28088	29085	1085	1085	1103	1142
WOOD PRODUCTS SECTORS	13407	13407	13628	14112	654	654	665	688
SCENARIO: 09 ST: NI								
ALL INDUSTRIAL SECTORS	22832	22832	21142	22291	896	896	830	875
WOOD PRODUCTS SECTORS	11078	11078	10258	10816	540	540	500	528
SCENARIO: 10 ST: NI								
ALL INDUSTRIAL SECTORS	22781	22781	23237	23778	894	894	912	933
WOOD PRODUCTS SECTORS	11054	11054	11275	11537	539	539	550	563
SCENARIO: 11 ST: NI								
ALL INDUSTRIAL SECTORS	21598	21598	20195	21615	848	848	793	848
WOOD PRODUCTS SECTORS	10480	10480	9799	10488	511	511	478	512

ECONOMIC IMPACTS TABLE
North Idaho

	NUMBER OF JOBS				INCOME(MILLIONS $1985)			
	1986	1990	1995	2000	1986	1990	1995	2000
SCENARIO: 11A ST: NI								
ALL INDUSTRIAL SECTORS	22612	22612	22595	22714	888	888	887	892
WOOD PRODUCTS SECTORS	10972	10972	10963	11021	535	535	535	538
SCENARIO: 11B ST: NI								
ALL INDUSTRIAL SECTORS	22578	22578	22528	22578	886	886	884	886
WOOD PRODUCTS SECTORS	10955	10955	10931	10955	534	534	533	534
SCENARIO: 11C ST: NI								
ALL INDUSTRIAL SECTORS	22578	22578	22697	22545	886	886	891	885
WOOD PRODUCTS SECTORS	10955	10955	11013	10939	534	534	537	534
SCENARIO: 12 ST: NI								
ALL INDUSTRIAL SECTORS	21818	21818	20415	23913	856	856	801	939
WOOD PRODUCTS SECTORS	10586	10586	9906	11603	516	516	483	566
SCENARIO: 12A ST: NI								
ALL INDUSTRIAL SECTORS	22595	22595	22595	23846	887	887	887	936
WOOD PRODUCTS SECTORS	10963	10963	10963	11570	535	535	535	564
SCENARIO: 12B ST: NI								
ALL INDUSTRIAL SECTORS	22578	22578	22578	23897	886	886	886	938
WOOD PRODUCTS SECTORS	10955	10955	10955	11595	534	534	534	566

ECONOMIC IMPACTS TABLE
North Idaho

	NUMBER OF JOBS				INCOME(MILLIONS $1985)			
	1986	1990	1995	2000	1986	1990	1995	2000
SCENARIO: 12C ST: NI								
ALL INDUSTRIAL SECTORS	22578	22578	22561	23897	886	886	886	938
WOOD PRODUCTS SECTORS	10955	10955	10947	11595	534	534	534	566
SCENARIO: 13 ST: NI								
ALL INDUSTRIAL SECTORS	26195	26195	24792	27158	1028	1028	973	1066
WOOD PRODUCTS SECTORS	12710	12710	12029	13177	620	620	587	643
SCENARIO: 14 ST: NI								
ALL INDUSTRIAL SECTORS	18725	18725	17322	19993	735	735	680	785
WOOD PRODUCTS SECTORS	9086	9086	8405	9701	443	443	410	473
SCENARIO: 15 ST: NI								
ALL INDUSTRIAL SECTORS	21345	21345	19942	21852	838	838	783	858
WOOD PRODUCTS SECTORS	10357	10357	9676	10603	505	505	472	517
SCENARIO: 1A ST: NI								
ALL INDUSTRIAL SECTORS	23068	23068	23694	23525	906	906	930	923
WOOD PRODUCTS SECTORS	11193	11193	11496	11414	546	546	561	557
SCENARIO: 1B ST: NI								
ALL INDUSTRIAL SECTORS	23018	23018	23474	23542	904	904	921	924
WOOD PRODUCTS SECTORS	11168	11168	11390	11423	545	545	556	557

ECONOMIC IMPACTS TABLE
North Idaho

	NUMBER OF JOBS				INCOME(MILLIONS $1985)			
	1986	1990	1995	2000	1986	1990	1995	2000
SCENARIO: 1C ST: NI								
ALL INDUSTRIAL SECTORS	23035	23035	23491	23694	904	904	922	930
WOOD PRODUCTS SECTORS	11177	11177	11398	11496	545	545	556	561
SCENARIO: 2A ST: NI								
ALL INDUSTRIAL SECTORS	23254	23254	23711	25840	913	913	931	1014
WOOD PRODUCTS SECTORS	11283	11283	11505	12538	550	550	561	612
SCENARIO: 2B ST: NI								
ALL INDUSTRIAL SECTORS	23254	23254	23711	25840	913	913	931	1014
WOOD PRODUCTS SECTORS	11283	11283	11505	12538	550	550	561	612
SCENARIO: 2C ST: NI								
ALL INDUSTRIAL SECTORS	23254	23254	23711	25840	913	913	931	1014
WOOD PRODUCTS SECTORS	11283	11283	11505	12538	550	550	561	612
SCENARIO: 99 ST: NI								
ALL INDUSTRIAL SECTORS	28713	28713	31637	28003	1127	1127	1242	1099
WOOD PRODUCTS SECTORS	13932	13932	15350	13587	680	680	749	663

ECONOMIC IMPACTS TABLE
South Idaho

	NUMBER OF JOBS				INCOME(MILLIONS $1985)			
	1986	1990	1995	2000	1986	1990	1995	2000
SCENARIO: 00 ST: SI								
ALL INDUSTRIAL SECTORS	3330	3330	3182	2960	125	125	119	111
WOOD PRODUCTS SECTORS	1620	1620	1548	1440	70	70	67	62
SCENARIO: 01 ST: SI								
ALL INDUSTRIAL SECTORS	5387	5387	5387	5210	202	202	202	196
WOOD PRODUCTS SECTORS	2621	2621	2621	2534	113	113	113	109
SCENARIO: 02 ST: SI								
ALL INDUSTRIAL SECTORS	5831	5831	5831	5476	219	219	219	206
WOOD PRODUCTS SECTORS	2837	2837	2837	2664	122	122	122	115
SCENARIO: 03 ST: SI								
ALL INDUSTRIAL SECTORS	7444	7444	7444	7755	279	279	279	291
WOOD PRODUCTS SECTORS	3622	3622	3622	3773	156	156	156	162
SCENARIO: 04 ST: SI								
ALL INDUSTRIAL SECTORS	3537	3537	3537	3419	133	133	133	128
WOOD PRODUCTS SECTORS	1721	1721	1721	1663	74	74	74	72
SCENARIO: 05 ST: SI								
ALL INDUSTRIAL SECTORS	5387	5387	5387	5210	202	202	202	196
WOOD PRODUCTS SECTORS	2621	2621	2621	2534	113	113	113	109

ECONOMIC IMPACTS TABLE
South Idaho

	NUMBER OF JOBS				INCOME(MILLIONS $1985)			
	1986	1990	1995	2000	1986	1990	1995	2000
SCENARIO: 06 ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5831	4307	219	219	219	162
WOOD PRODUCTS SECTORS	2844	2844	2837	2095	122	122	122	90
SCENARIO: 07 ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5816	5846	219	219	218	219
WOOD PRODUCTS SECTORS	2844	2844	2830	2844	122	122	122	122
SCENARIO: 08 ST: SI								
ALL INDUSTRIAL SECTORS	7444	7444	7444	7755	279	279	279	291
WOOD PRODUCTS SECTORS	3622	3622	3622	3773	156	156	156	162
SCENARIO: 09 ST: SI								
ALL INDUSTRIAL SECTORS	5594	5594	2634	2516	210	210	99	94
WOOD PRODUCTS SECTORS	2722	2722	1282	1224	117	117	55	53
SCENARIO: 10 ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5831	4307	219	219	219	162
WOOD PRODUCTS SECTORS	2844	2844	2837	2095	122	122	122	90
SCENARIO: 11 ST: SI								
ALL INDUSTRIAL SECTORS	5180	5180	5032	4751	194	194	189	178
WOOD PRODUCTS SECTORS	2520	2520	2448	2311	109	109	105	100

ECONOMIC IMPACTS TABLE
South Idaho

	NUMBER OF JOBS				INCOME(MILLIONS $1985)			
	1986	1990	1995	2000	1986	1990	1995	2000
SCENARIO: 1A ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5846	5846	219	219	219	219
WOOD PRODUCTS SECTORS	2844	2844	2844	2844	122	122	122	122
SCENARIO: 1B ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5846	5846	219	219	219	219
WOOD PRODUCTS SECTORS	2844	2844	2844	2844	122	122	122	122
SCENARIO: 1C ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5846	5846	219	219	219	219
WOOD PRODUCTS SECTORS	2844	2844	2844	2844	122	122	122	122
SCENARIO: 2 ST: SI								
ALL INDUSTRIAL SECTORS	5624	5624	5476	5017	211	211	206	188
WOOD PRODUCTS SECTORS	2736	2736	2664	2441	118	118	115	105
SCENARIO: 2A ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5831	5846	219	219	219	219
WOOD PRODUCTS SECTORS	2844	2844	2837	2844	122	122	122	122
SCENARIO: 2B ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5846	5846	219	219	219	219
WOOD PRODUCTS SECTORS	2844	2844	2844	2844	122	122	122	122

ECONOMIC IMPACTS TABLE
South Idaho

	NUMBER OF JOBS				INCOME(MILLIONS $1985)			
	1986	1990	1995	2000	1986	1990	1995	2000
SCENARIO: 12C ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5846	5846	219	219	219	219
WOOD PRODUCTS SECTORS	2844	2844	2844	2844	122	122	122	122
SCENARIO: 13 ST: SI								
ALL INDUSTRIAL SECTORS	7237	7237	7089	7296	272	272	266	274
WOOD PRODUCTS SECTORS	3521	3521	3449	3550	152	152	148	153
SCENARIO: 14 ST: SI								
ALL INDUSTRIAL SECTORS	3330	3330	3182	2960	125	125	119	111
WOOD PRODUCTS SECTORS	1620	1620	1548	1440	70	70	67	62
SCENARIO: 15 ST: SI								
ALL INDUSTRIAL SECTORS	5180	5180	5032	4751	194	194	189	178
WOOD PRODUCTS SECTORS	2520	2520	2448	2311	109	109	105	100
SCENARIO: 1A ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5846	5846	219	219	219	219
WOOD PRODUCTS SECTORS	2844	2844	2844	2844	122	122	122	122
SCENARIO: 1B ST: SI								
ALL INDUSTRIAL SECTORS	5861	5861	5846	5846	220	220	219	219
WOOD PRODUCTS SECTORS	2851	2851	2844	2844	123	123	122	122

ECONOMIC IMPACTS TABLE
South Idaho

	NUMBER OF JOBS				INCOME(MILLIONS $1985)			
	1986	1990	1995	2000	1986	1990	1995	2000
SCENARIO: 1C ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5846	5846	219	219	219	219
WOOD PRODUCTS SECTORS	2844	2844	2844	2844	122	122	122	122
SCENARIO: 2A ST: SI								
ALL INDUSTRIAL SECTORS	5831	5831	5846	5846	219	219	219	219
WOOD PRODUCTS SECTORS	2837	2837	2844	2844	122	122	122	122
SCENARIO: 2B ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5846	5846	219	219	219	219
WOOD PRODUCTS SECTORS	2844	2844	2844	2844	122	122	122	122
SCENARIO: 2C ST: SI								
ALL INDUSTRIAL SECTORS	5846	5846	5846	5846	219	219	219	219
WOOD PRODUCTS SECTORS	2844	2844	2844	2844	122	122	122	122
SCENARIO: 99 ST: SI								
ALL INDUSTRIAL SECTORS	8584	8584	8717	9857	322	322	327	370
WOOD PRODUCTS SECTORS	4176	4176	4241	4795	180	180	183	206

APPENDIX E

PAYMENTS TO COUNTIES

For the purposes of this report, the payment to counties are based upon the distribution of the number of acres of National Forest System land within each county.

Northern Idaho:

Forest	County	Payments to Counties F.Y. 81-85 (1982 M$)
Clearwater	Benewah	
	*Clearwater	661
	Idaho	670
	*Latah	199
	Shoshone	35
	Subtotal	1565
Nezperce	Idaho	808
	Subtotal	808
IPNF	Benewah	73
	Bonner	470
	Boundary	479
	Kootenai	445
	Shoshone	2054
	Subtotal	3521
	Total	5894

*All of Clearwater County and Latah Counties returns are associated with the Clearwater NF for this chart.

Using the average historical harvest level from years 1981 to 1985 for the Northern Idaho forests (392 MMBF/year), a payment to counties per MMBF can be determined:

$5,894,000 / 392 MMBF = $15,036 per MMBF

The calculation can be used to estimate the impact of different harvest levels in terms of payments to counties. For example, a 20 MMBF increase in harvest on NFS lands would result in a $300,720 (20 MMBF x $15,036) increase in payments to counties. It should be noted that the $300,720 should not be construed as the actual dollars Northern Idaho counties can expect to recieve. It should be used for purpose of comparing one scenario forecast in this report against another scenario forecast, in terms of payments to counties.

Southern Idaho:

Forest	County	Payments to Counties F.Y. 81-85 (1982 M$)
Boise	Boise	477.14
	Elmore	130.81
	Gem	84.71
	Valley	379.57
	Subtotal	1072.23
Caribou	Bannock	0.95
	Bear lake	1.92
	Bonneville	0.86
	Caribou	3.17
	Franklin	1.01
	Oneida	1.04
	Power	0.05
	Lincoln	0.05
	Subtotal	9.05
Challis	Blaine	0.01
	Clark	0.01
	Butte	0.86
	Lemhi	1.41
	Custer	7.23
	Subtotal	9.52
Payette	Adams	123.59
	Idaho	198.24
	Valley	219.33
	Washington	31.68
	Subtotal	572.84
Salmon	Idaho	1.88
	Lemhi	46.94
	Valley	2.03
	Subtotal	50.85

Sawtooth	Blaine	8.06
	Camas	5.33
	Cassia	6.50
	Custer	4.10
	Elmore	2.41
	Oneida	0.25
	Power	0.49
	Twin Falls	1.54
	Subtotal	28.68
Targhee	Bonneville	26.80
	Butte	7.40
	Clark	54.40
	Fremont	80.40
	Lemhi	11.70
	Madison	6.30
	Teton	13.50
	Subtotal	200.50
	Total	1943.67

Using the average historical harvest level from years 1981 to 1985 for the Southern Idaho forests (246 MMBF/year), a payment to counties per MMBF can be determined:

$1,943,670 / 246 MMBF = $7,901 per MMBF

The calculation can be used to estimate the impact of different harvest levels in terms of payments to counties. For example, a 20 MMBF increase in harvest on NFS lands would result in a $158,020 (20 MMBF x $7,901) increase in payments to counties. It should be noted that the $158,020 should not be construed as the actual dollars Southern Idaho counties can expect to recieve. It should be used for purpose of comparing one scenario forecast in this report against another scenario forecast, in terms of payments to counties.

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